### This Page Is Inserted by IFW Operations and is not a part of the Official Record

### **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

### IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problems Mailbox.

Figure 1

3

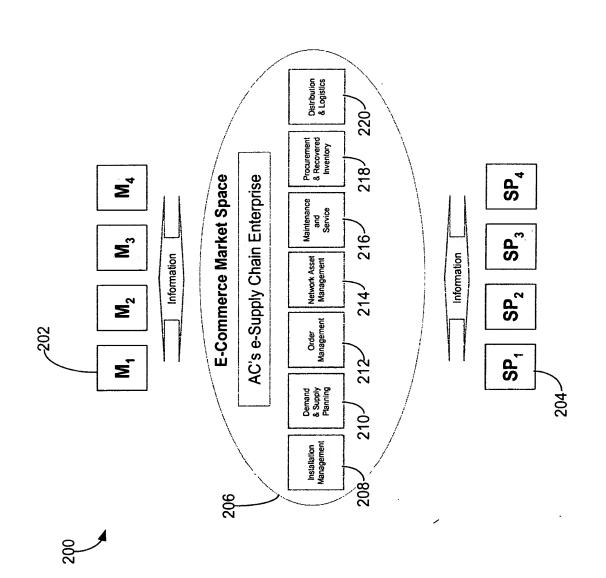


Figure 2

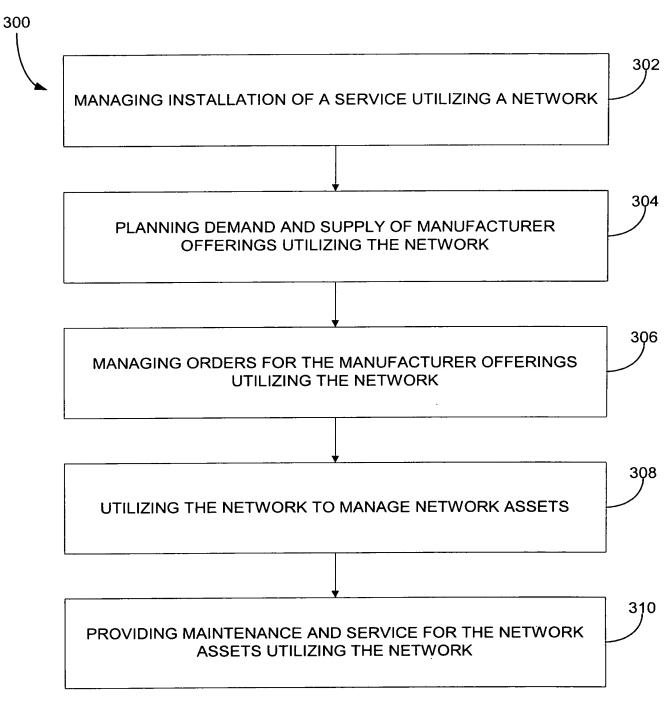


Figure 3

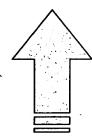
Figure 4

## Core Competencies

Service Provider

- New customer acquisitions
- New customer segmentation strategy
- Strategic technology mgmt
- Technology life cycle management
- New service offerings

 Network is planned based on a capability, (i.e. capacity and features)



- Availability of sites is synchronized with the network roll out
- Joint optimization of network assets

Focus on managing production

 Focus on managing the customer relationship

Manufacturer

Focus on market coverage roll

out

• Focus on R & D

capacity

# **New Business Relationships**

### Service Provider

- Provide an open access channel for new service offerings from the manufacturer
- Move to a focus on platform release strategy in line with service offerings



508

- Gain the potential to reposition the network as a platform for their solutions pipeline
- The ability for the manufacturer to build strategic alliances with solution integrators becomes a critical differentiator

Figure 5

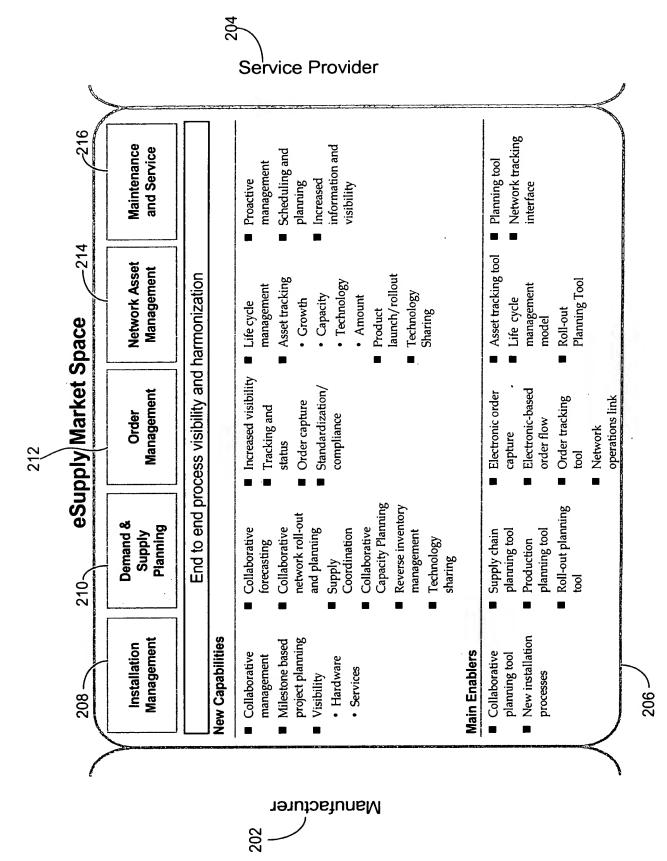


Figure 6

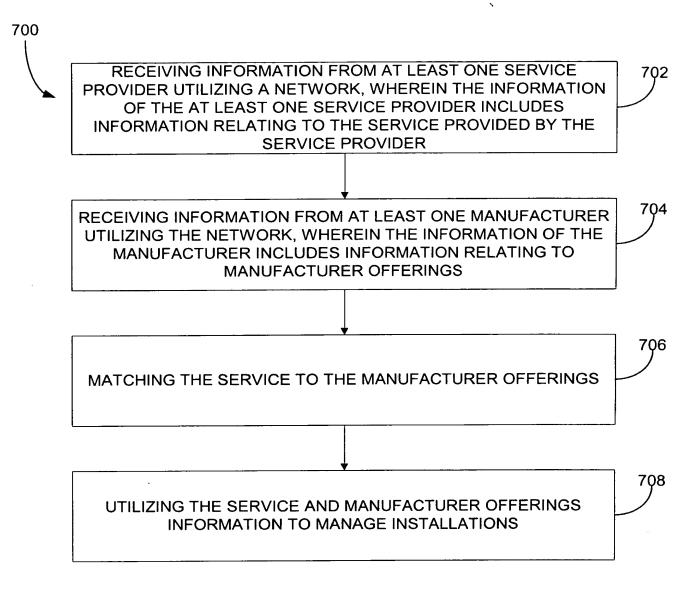


Figure 7

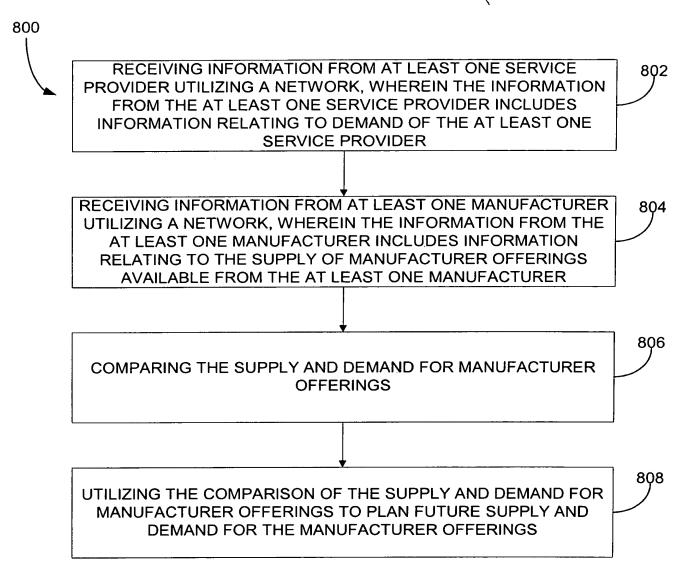


Figure 8

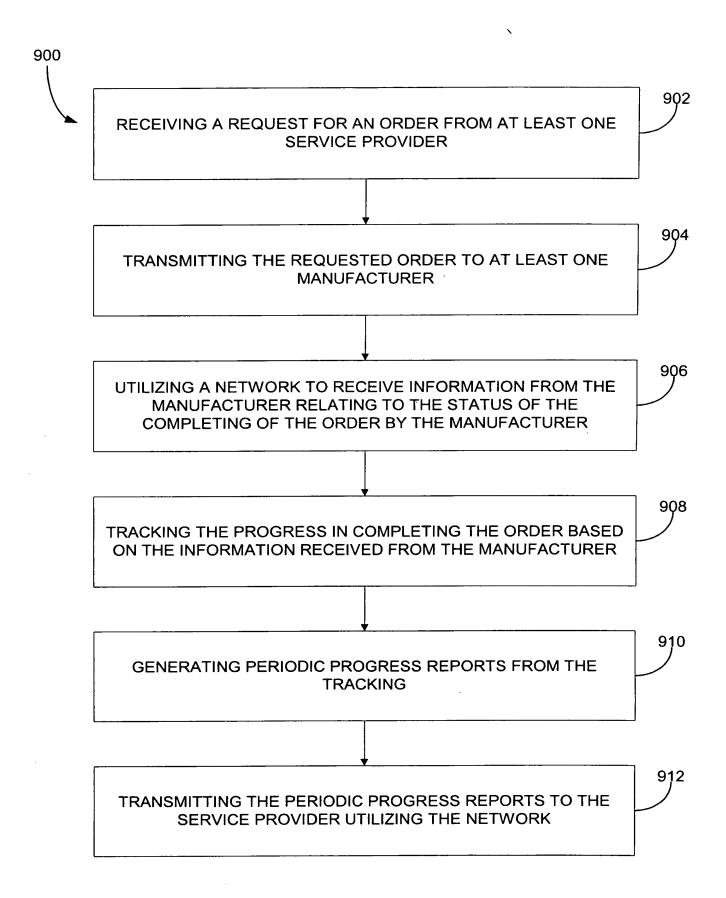


Figure 9

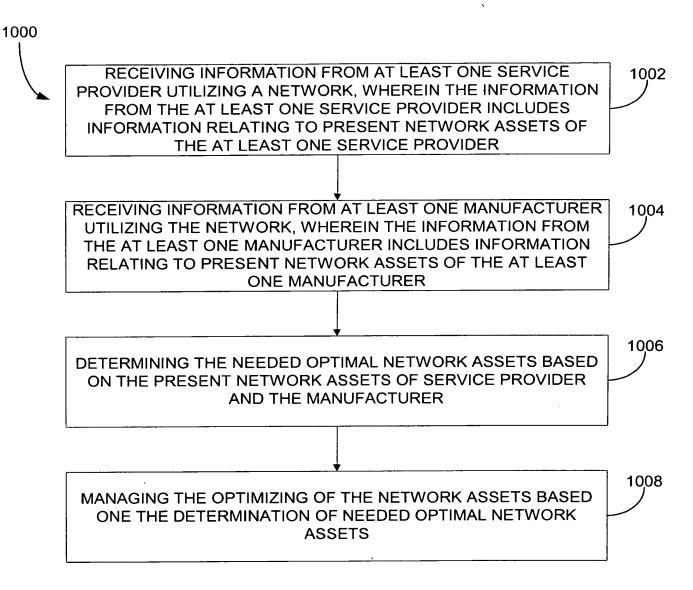


Figure 10

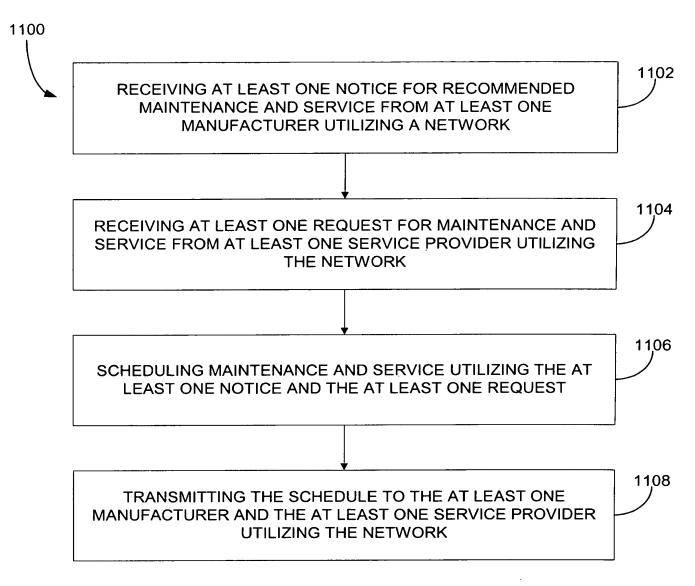
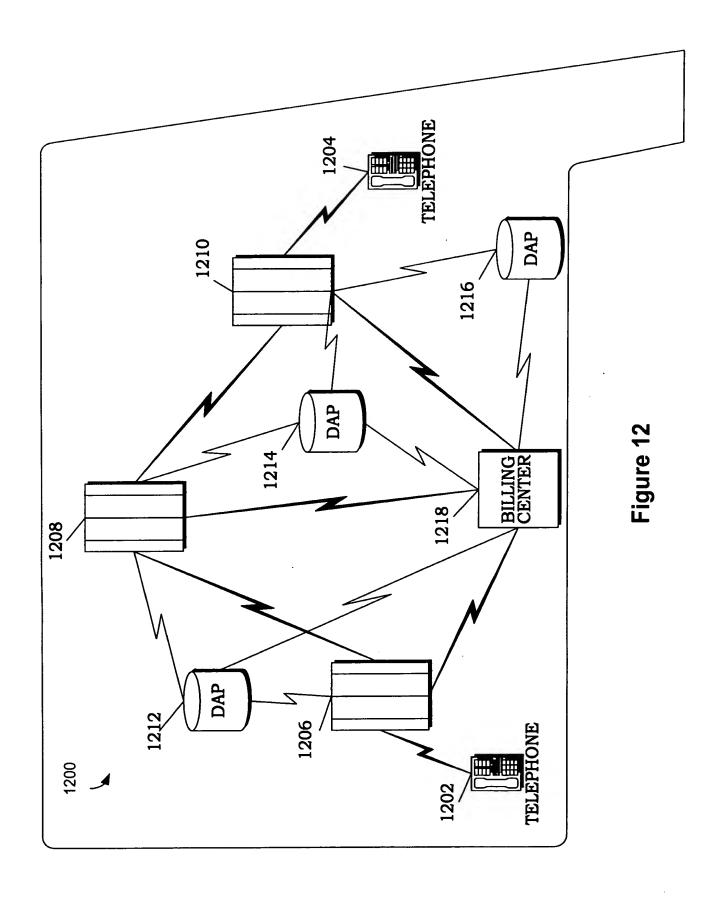


Figure 11



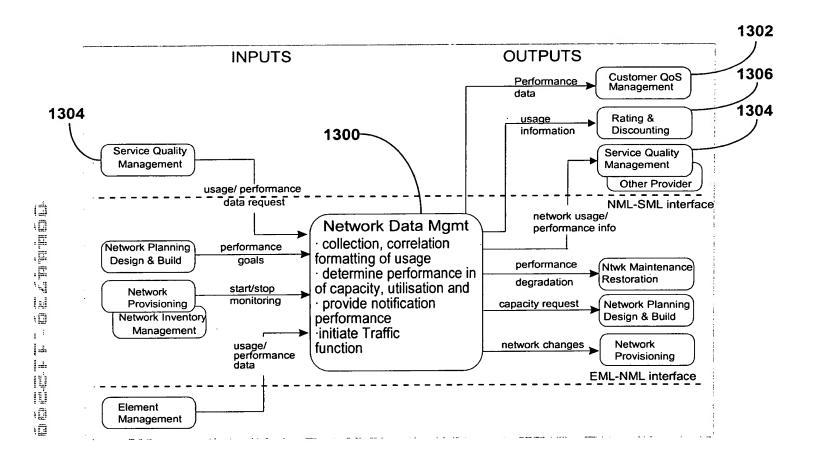


Figure 13

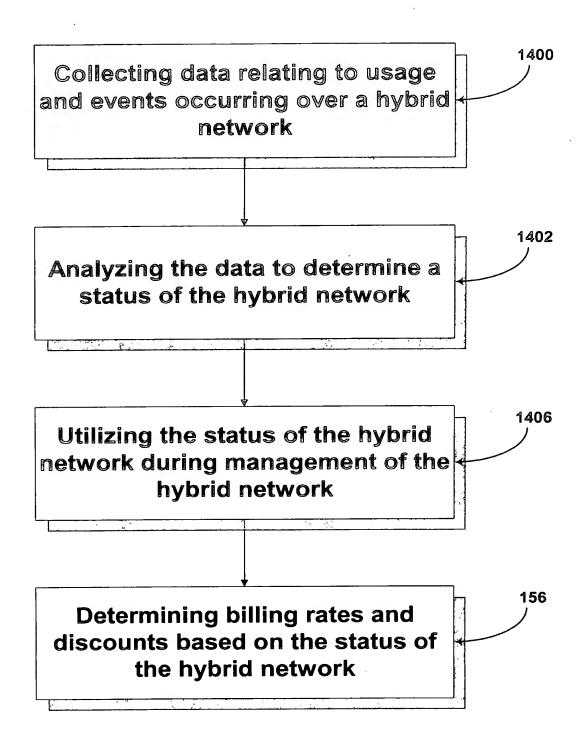


Figure 14

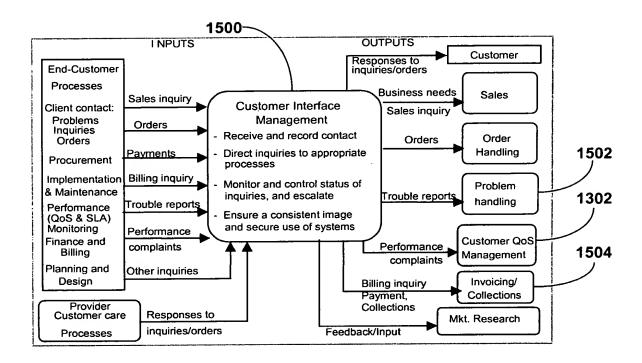


Figure 15

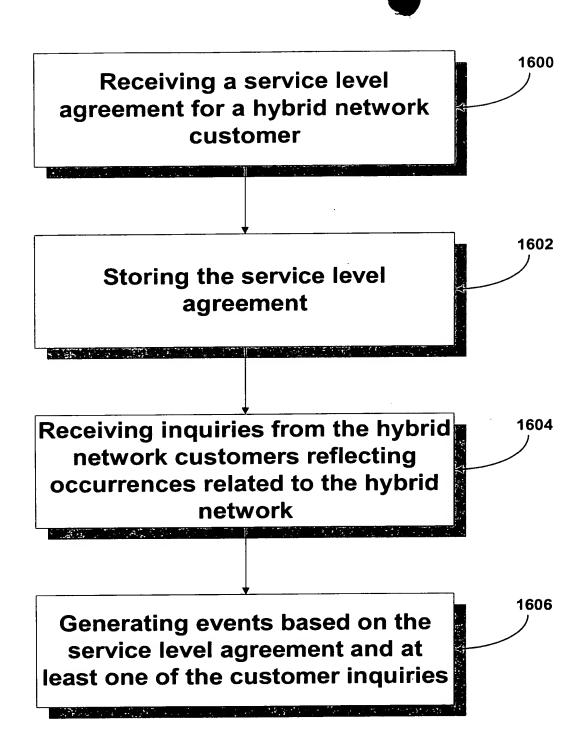


Figure 16

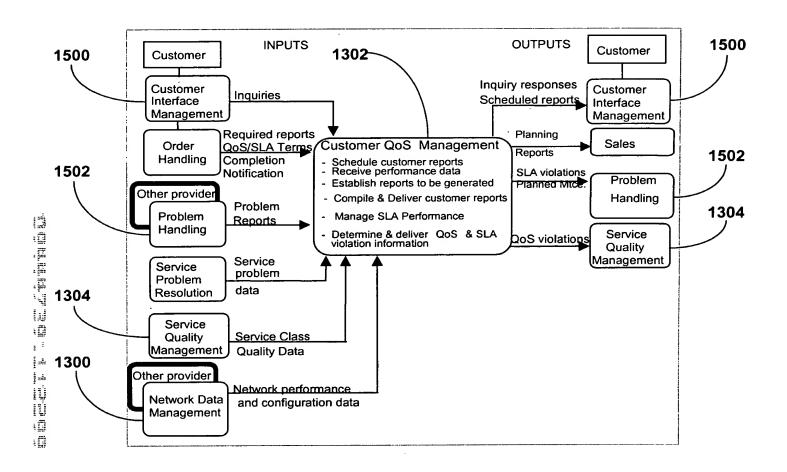


Figure 17

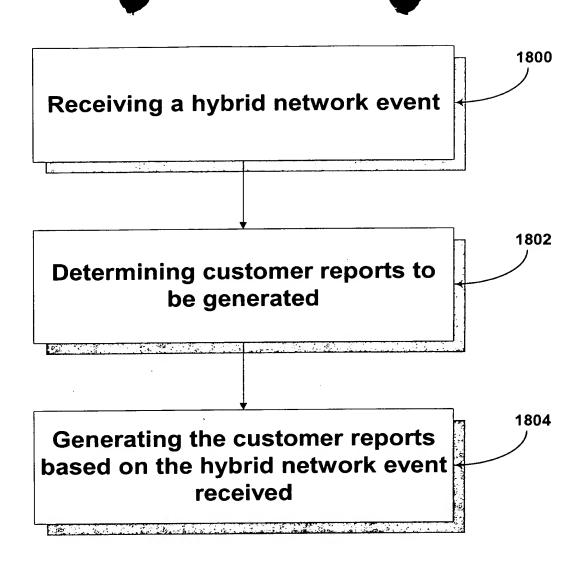


Figure 18

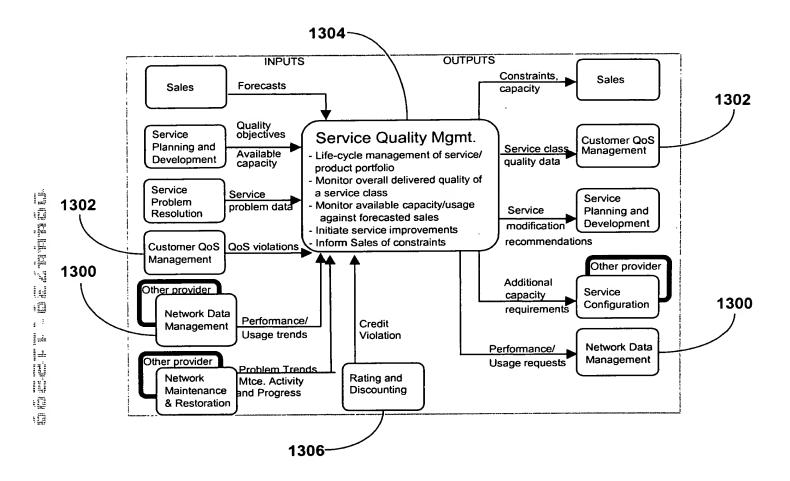


Figure 19

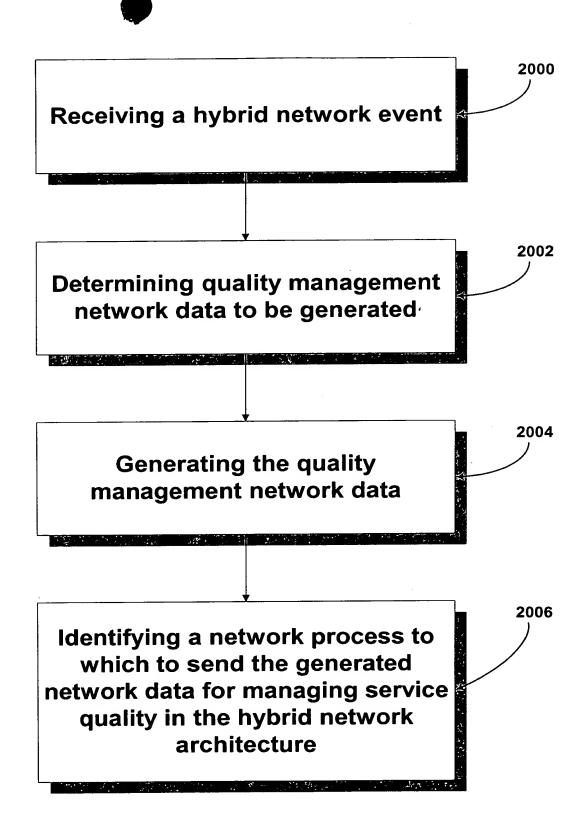


Figure 20

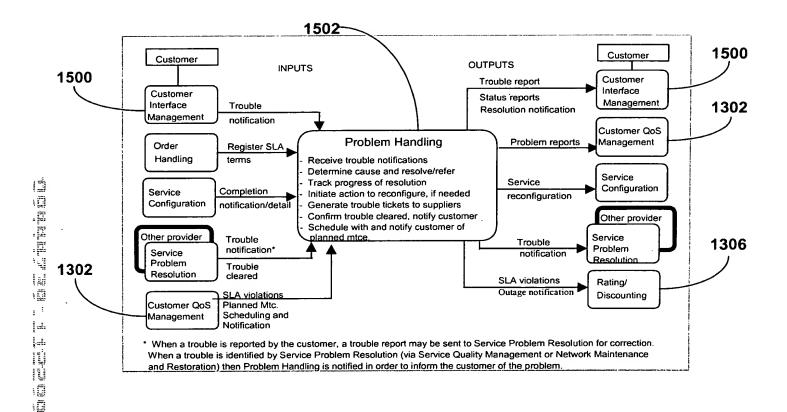


Figure 21

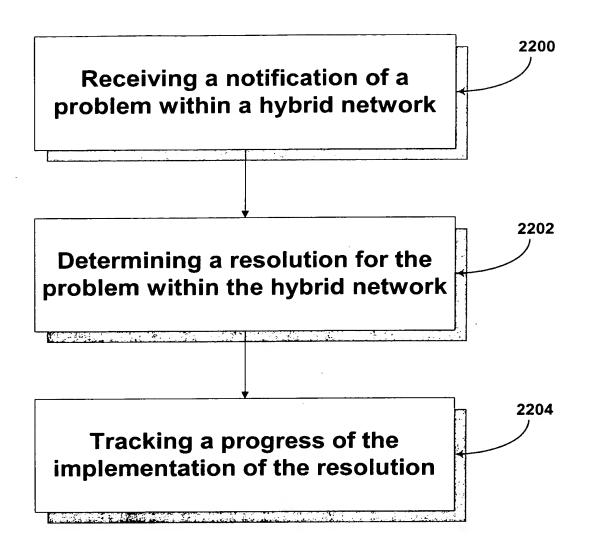


Figure 22

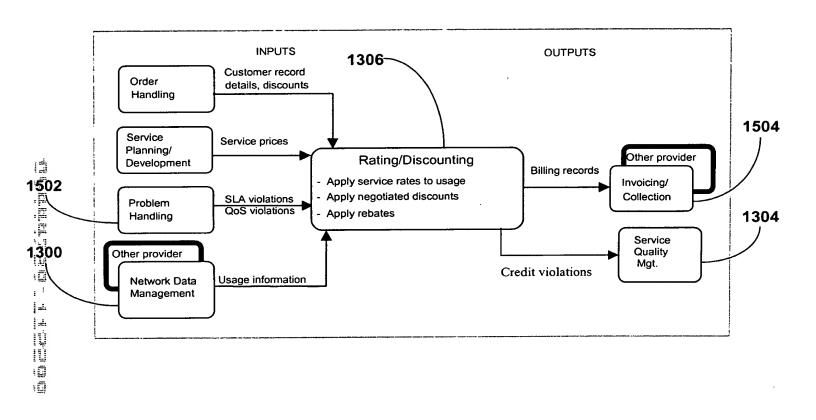


Figure 23

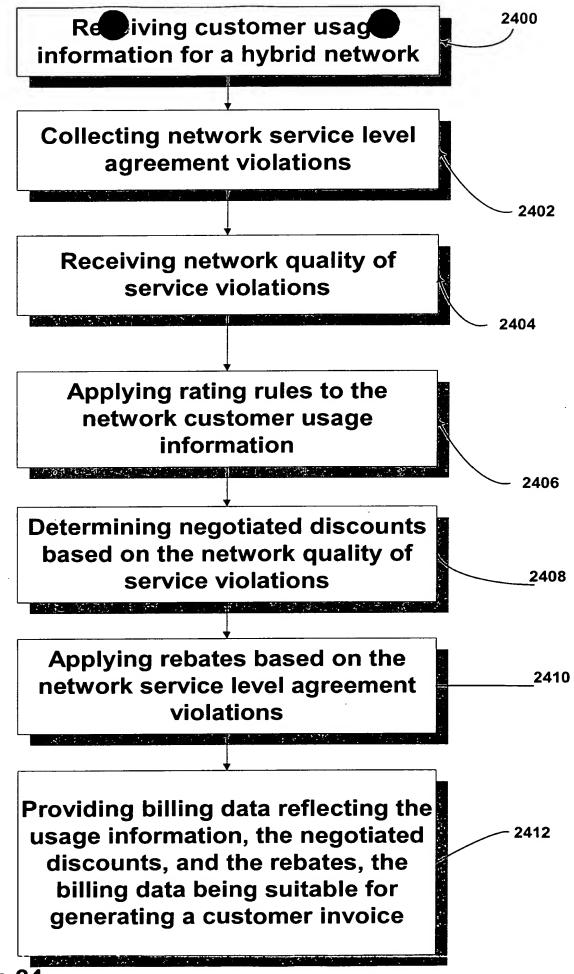


Figure 24

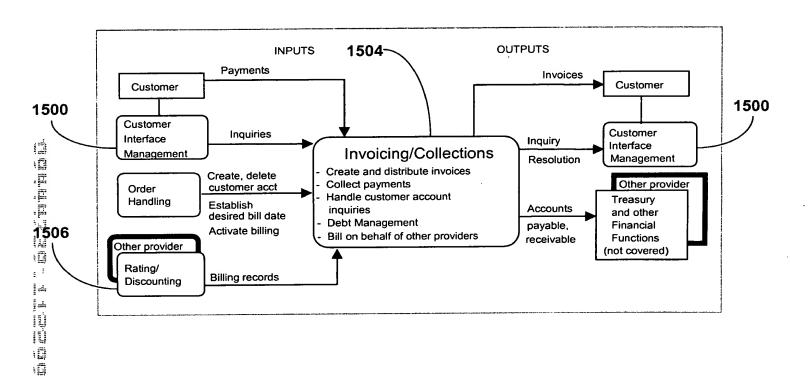


Figure 25

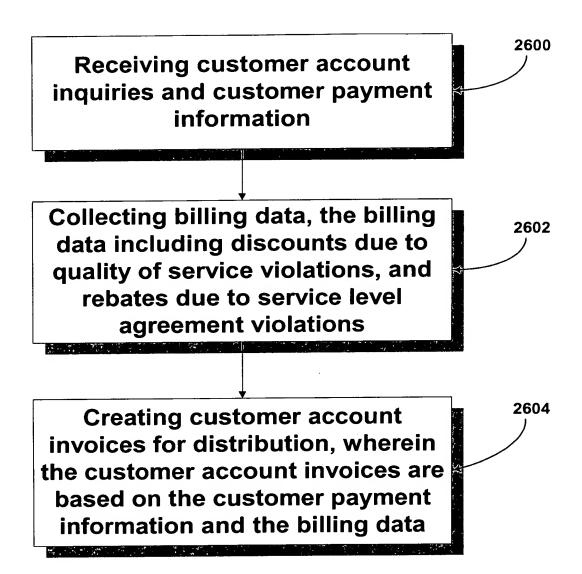


Figure 26

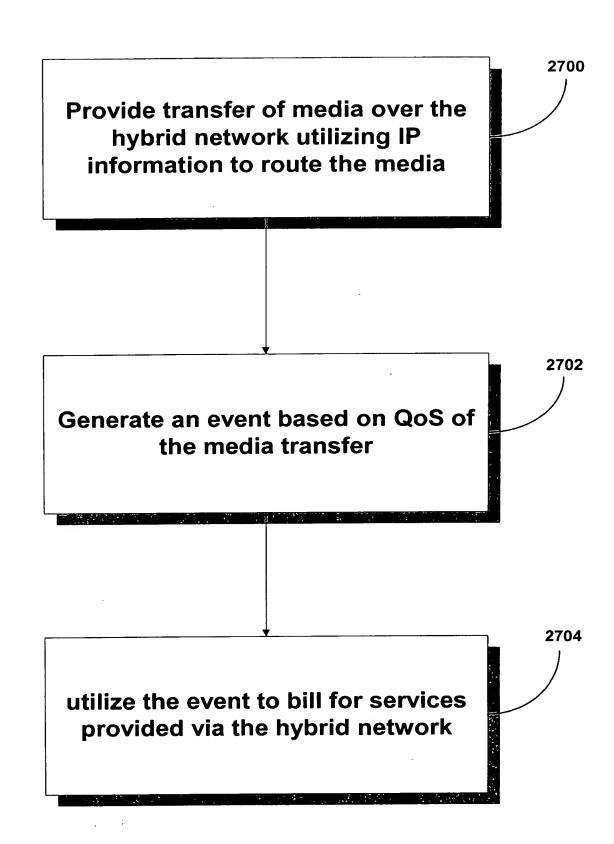


Figure 27

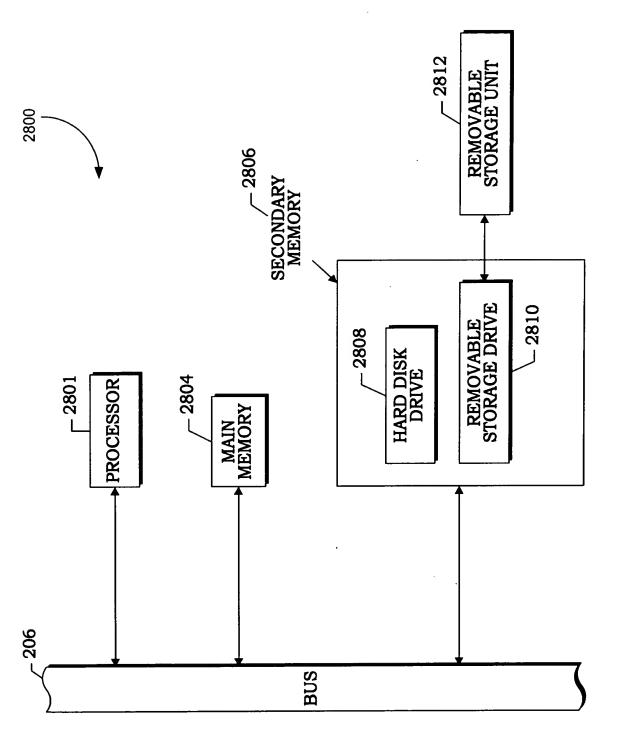


Figure 28

BITS	00 01 02 0	3 04 05 06 0	7 08 09	10 11	12 13 14 15		
WORD 00	CR ID CD ID						
01	TP1 BITS 0-15						
02	TP1 BITS 16-31						
03	TP3 BITS 0-12 TP6 0-2						
04	TP6 BI	rs 3-12		TP7	BITS 0-5		
05	TP7 BITS 6-21						
06	OI	PL. ORIGINAT	ING PO	RT 0-1	5		
07	OP TF	L. TERMINAT	ING PO	RT 0-1	4		
08	TP OTG	. ORIGINATIN	G TRUI	NK GRO	OUP TT		
09	TERMINA	GING TRUNK	GROUP	(1-12)	TP3Q		
10	TP6Q ACT	ION CODE	C	TC	TTC		
11	ID1	ID2		ANI IND	EX		
12	CLI 1	CLI 2	C	LI 3	CLI 4		
13	CLI 5	CLI 6	CLI 7		CLI 8		
14	CLI 9	CLI 10	A1		A2		
15	A3	A4		A5	A6		
16	A7	A8		A9	A10		
17	A11	A12	I	A13	A14		
18	A15	A16	I	117	A18		
19	A19	A20	A21		A22		
20	D1	D2	D3		D4		
21	D5	D6	D7		D8		
22	D9	D10	D11		D12		
23	D13	D14	D15		D16		
24	D17	PTD1	PTD2		PTD3		
25	PTD4	PTD5	PTD6		PTD7		
26	PTD8	PTD9	PTD10				
27	FC	TMC	KAT		TP7Q		
28	EC, ENTR	Y CODE	PD	ND ID	DIVID		
29	DO CC IN	SCCDDE		SA	NOCLI		
30	CN1	CN2 CN3			CN4		
31	ACIF	SS7 RELEAS	E COD	E NC	IDSEQ NL RS		

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 29

BITS	00 01 02 0	3 04 05 06 0	7 08 09	10 11	12 13 14 15			
WORD 00	CR ID CD ID							
01	TP1 BITS 0-15							
02	TP1 BITS 16-31							
03	TP3 BI	TP3 BITS 0-12 TP6 0-2						
04	TP6 BITS 3-12 TP7 BITS 0-5							
05		TP7 BI	TS 6-21					
06	O	PL. ORIGINAT	ING POF	የፐ 0-15				
07	OP TI	L. TERMINAT	ING POI	RT 0-14	<b>.</b>			
08	TP OTG	. ORIGINATIN	G TRUN	K GRO	UP TT			
09	TERMINA	GING TRUNK	GROUP	(1-12)	TP3Q			
10	TP6Q ACT	TION CODE	0	rc	TTC			
11	ID1	ID2	Α	NI IND	EX			
12	CLI 1	CLI 2	CI	I 3	CLI 4			
13	CLI 5	CLI 6 CI		JI 7	CLI 8			
14	CLI 9	CLI 10 CLI		J11	CLI12			
15	CLI13	CLI14	CLI15		A1			
16	A2	A3	P	14	A5			
17	A6	A7	P	18	A9			
18	A10	A11	A	12	A13			
19	A14	A15 A		16	A17			
20	A18	A19	A20		A21			
21	A22	A23	A24		A25			
22	A26	A27	A28		A29			
23	A30	A31	A32		A33			
24	A34	A35	A36		A37			
25	A38	A39	A40		A41			
26	A42	A43	A44		A45			
27	FC	TMC	KAT		TP7Q			
28	EC, ENTR	Y CODE	PD	ND ID	DIVID			
29	DOMNCC IN	SCCDDE	DT SA		NOCLI			
30	CN1	CN2 CN3 CN4						
31	ACIF	SS7 RELEAS	E CODE	NCI	DSEQ NL RS			

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 30

**MSB** LSB BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 **WORD 32** 33 34 ID3 ID4 ID1 ID2 ID5 ID7 ID8 35 ID6 36 ID9 ID<sub>10</sub> ID11 ID12 37 **ID13 ID15 ID16 ID14 ID17 ID19 ID20** 38 **ID18** 39 **ID21 ID22 ID23 ID24** 40 **ID25** PTD1 PTD2 PTD3 PTD4 PTD7 PTD5 PTD6 41 PTD8 PTD10 PTD11 PTD9 42 PTD14 PTD15 43 PTD12 PTD13 CB EIR CALL TYPE **OVFAL** 44 DTA 2 DTA 3 45 **OVFCL** DTA 1 46 DTA 7 DTA 4 DTA 5 DTA 6 47 DTA 8 DTA 9 **DTA 10 DTA 11** 48 **DTA 14 DTA 15 DTA 12 DTA 13 DTAC NCID** 49 **OVFC NETWORK CALL IDENTIFIER (NCID)** 50 51 **NETWORK CALL IDENTIFIER (NCID)** NETWORK CALL IDENTIFIER (NCID) 52 NETWORK CALL IDENTIFIER (NCID) 53 NETWORK CALL IDENTIFIER (NCID) 54 55 56 57 58 OUS TYPE 59 **OUIE** OUIE COUNT CONT. **OVFCS** 60 **ORIGINATING NX64 BITMAP (1-16)** 61 62 ORIG NX64 BITMAP(17-24) TERM NX64 BITMAP(17-24) 63 TERMINATING NX64 BITMAP(9-24)

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 31

BITS	00 01 02 0	3 04 05 06	07 08 0			13 14	1 15	
WORD 00	CR ID CD ID							
01		TP1 F	BITS 0-1	5				
02		TP1 BITS 16-31						
03	TP4 BI7	rs 0-12	·			TP6 (	0-2	
04	TP6 BI7	rs 3-12		TP	7 BITS	<u>3 0-5</u>		
05			BITS 6-2					
06	OF	L. ORIGINA	TING PC	RT 0-1	5			
07		L. TERMINA						
08		ORIGINATI			OUP		TT	
09	TERMINAGI	NG TRUNK	GROUP (	1-12)		TP30	<u> </u>	
10	TP6Q ACT	ION CODE		OTC		TTC	}	
11	ID1	ID2		VACC		TNACC		
12	CLI 1	CLI 2		CLI 3	CLI 4			
13	CLI 5	CLI 6		CLI 7		CLI 8		
14	CLI 9	CLI 10		A1		A2		
15	A3	A4		A5		A6		
16	A7	8A	A8 A9		A10			
17	A11	A12		A13		A14		
18	A15	A16		A17		A18		
19	A19	A20 A21		A21	A22			
20	D1	D2			D4			
21	D5	D6		D7		D8		
22	D9	D10		D11		D12		
23	D13	D14 D15		D16				
24								
25								
26	RN1	RN2		RN3		RN4		
27	FC	TMC		KAT		TP7Q		
28				PD ND ID				
29	<del></del>			DT PP XC SA		NOCLI		
30						1		
31	ACIF	SS7 RELEA	ASE COD	E NC	CIDSE	Q NI	√RS	

BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 32

20

21

22

23

24

25

26

27

28

30

31

**A18** 

**A22** 

A26

**A30** 

A34

**A38** 

**A42** 

FC

CN1

**ACIF** 

29 DOMMCC IN

EC, ENTRY CODE

**MSB** LSB BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

WORD 00	CR ID CD ID							
01	TP1 BITS 0-15							
02	TP1 BITS 16-31							
03	TP4 B	ITS 0-12				TP6	0-2	
04	тр6 в	ITS 3-12	_		TP'	7 BITS 0-5	<b>;</b>	
05		Т	P7 BI	TS 6-21				
06	(	PL. ORIG	INAT	NG POR	r 0-1	5		
07	OP 1	PL. TERM	IINAT	ING POR	T 0-1	4		
08	TP OTG. ORIGINATING TRUNK GROUP TT					TT		
09	TERMINAC	ING TRU	NK GI	ROUP (1-	12)	TP3	Q	
10	TP6Q ACTION CODE			OTC		TTC	2	
11	ID1	ID2	,	ONACC		TNACC		
12	CLI 1	CLI	2	CLI	I 3 CLI			
13	CLI 5	CLI	6	CLI	CLI 7 CI			
14	CLI 9	CLI 1	lO	CLI	CLI 11 CLI		2	
15	CLI 13	CLI 1	4	CLI 15		A1		
16	A2	A3		A		A5		
17	A6	A7		A	3	A9		
18	A10	A11		A1	2	A13		
19	A14	A15	5	A16		A17	A17	

A19

**A23** 

**A27** 

A31

**A35** 

A39

A43

**TNC** 

CN2

**A20** 

**A24** 

· A28

**A32** 

**A36** 

**A40** 

**A44** 

**KAT** 

PD SCCD DE DT PP XC SA

CN<sub>3</sub>

ND ID

**A21** 

**A25** 

A29

**A33** 

A37

A41

**A45** 

TF7Q

NCIDSEQ NL RS

**DIVID** 

**NOCLI** CN4

BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 **EOSR/EPOSR FORMAT** 

SS7 RELEASE CODE

Figure 33

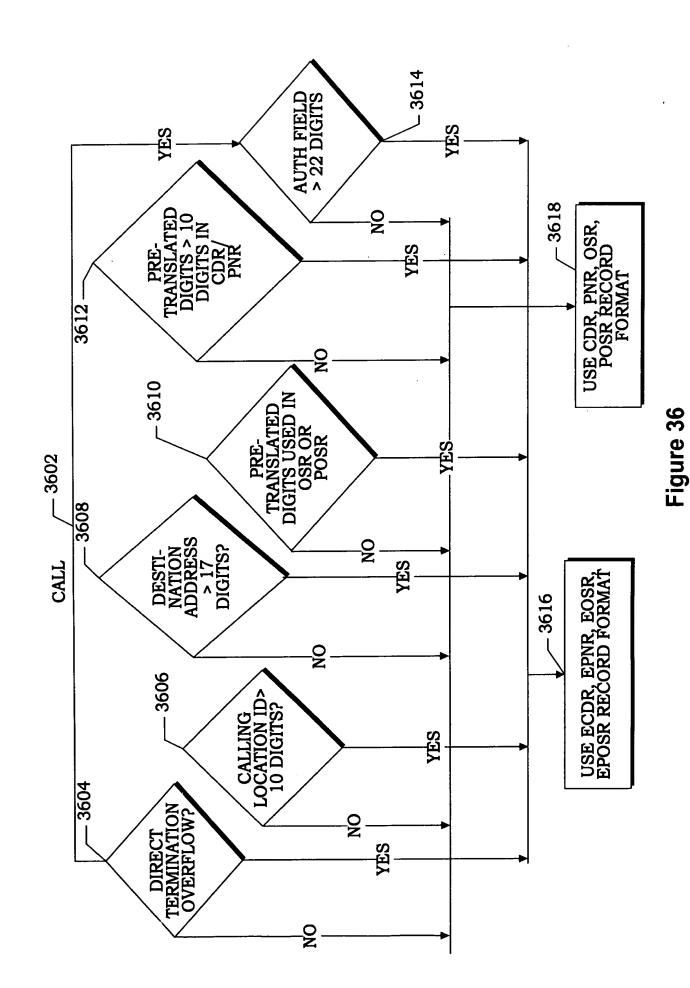
BITS	00 01 02 0	3 04 05 06 0	7 08 09 10 11	12 13 14 15			
32	T&C C	UEST 1	T&C GUEST 2				
33	Т&С С	UEST 3	T&C GUEST 4				
34	ID1	ID2	ID3	ID4			
35	ID5	ID6	ID7	ID8			
36	ID9	ID10	ID11	ID12			
37	ID13	ID14	ID15	ID16			
38	ID17	ID18	ID19	ID20			
39	ID21	ID22	ID23	ID24			
40	ID25	PTD1	PTD2	PTD3			
41	PTD4	PTD5	PTD6	PTD7			
42	PTD8	PTD9	PTD10	PTD11			
43	PTD12	PTD13	PTD14	PTD15			
44	EIR CAI	L TYPE	OVFAL C				
45	OVFCL	DTA 1	DTA 2	DTA 3			
46	DTA 4	DTA 5	DTA 6	DTA 7			
47	DTA 8	DTA 9	DTA 10	DTA 11			
48	DTA 12	DTA 13	DTA 14	DTA 15			
49	OVFC		DTAC	NCID			
50	NE	NETWORK CALL IDENTIFIER (NCID)					
51	NE	TWORK CALL	IDENTIFIER (	NCID)			
52	NE	NETWORK CALL IDENTIFIER (NCID)					
53	NETWORK CALL IDENTIFIER (NCID)						
54	NETWORK CALL IDENTIFIER (NCID)						
55	T&C R	OOM 1	T&C ROOM 2				
56	T&C R	оом з	T&C ROOM 4				
57	T&C R	ООМ 5	T&C ROOM 6				
58	EAC1	EAC2	EAC3	EAC4			
59	EAC5	EAC6	EAC7	EAC8			
60	EAC9	EAC10	EAC11	EAC12			
61	OPIN OVFCS						
62	TP5-OPERATOR RELEASE						
63	RN1	RN2	RN3	RN4			

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 34

BIT	00 01 02 03				11 12 13 14 15
WORD 00	CR ID SYNC WORD (MINUS 2, OCTAL 7776)				
01					MBER (0-15)
02	CDID, CALI	DIS	CONNEC	T I.D. NUN	MBER (16-31)
03	SWID 1		SWID		SWID 3
04	ST-SWITC	CH TY	PE	EQ-EVI	ENT QUALIFIER
05	SERI	T-SE	R EVEN	T TIME (0-	15)
06	SERI'			TIME (16-	
07					D CDID (12 LSAs)
08		LC	DID-LAS	T RECORI	CDID (12 LSAs)
09					CDID (12 LSAs)
10	NBSN-NE	MAS	BLOCK	SEQUENC	E NUMBER
11	I	T-PR	EVIOUS	TIME (0-1	5)
12	P	T-PRI	EVIOUS	TIME (16-3	31)
13	SI	TIME	OFFSE	T	
14					
15					
16	SOFTWARE LOAD ID1 SOFTWARE LOAD ID2				ARE LOAD ID2
17	SOFTWARE	LOA	D ID3		ARE LOAD ID4
18	SOFTWARE	LOA	D ID5	SOFTW	ARE LOAD ID6
19	LAST PATCH	IS/PF	R RLS1	LAST PA	TCHS/PR RLS2
20	QCDR		Ç	SCDR	
21	QPMR		(	<b>OSPMR</b>	
22	QOSR		Ç	SOSR	
23	QPOSR QSPOSR				
24					
25	CDR THROTTLE START TIME (0-15)				
26	CDR THROTTLE START TIME (16-31)				
27					
28	CDR THROTTLE STOP TIME (16-31)				
29	FORMAT VER.				
30					
31	THROTTLE COUNT (16-31)				

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15



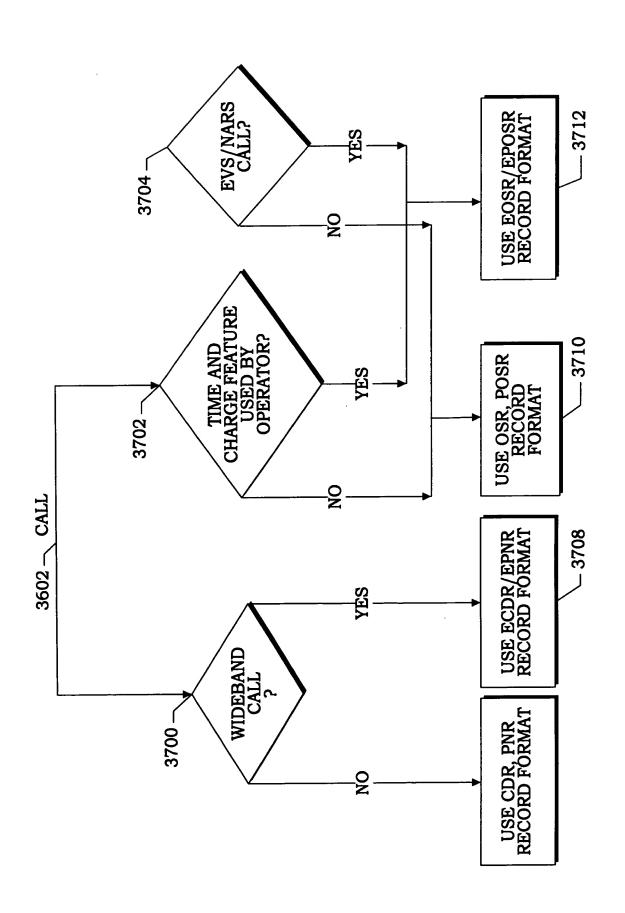


Figure 37

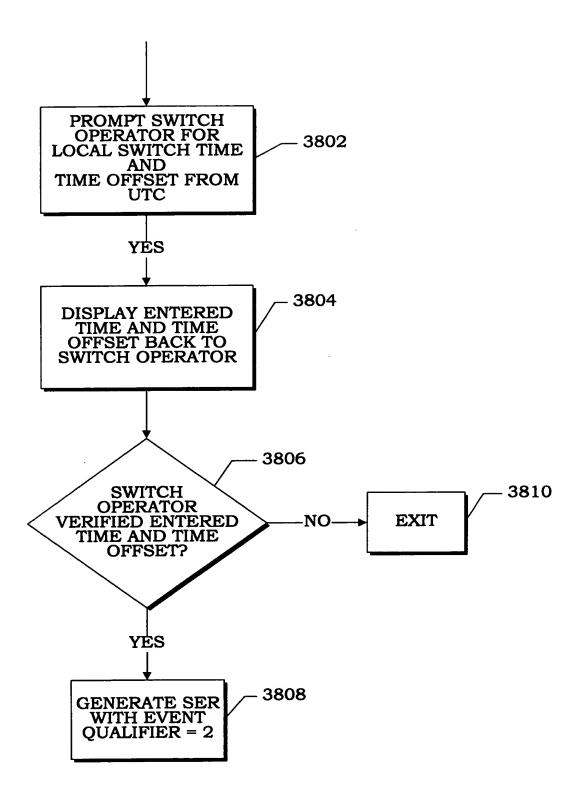


Figure 38

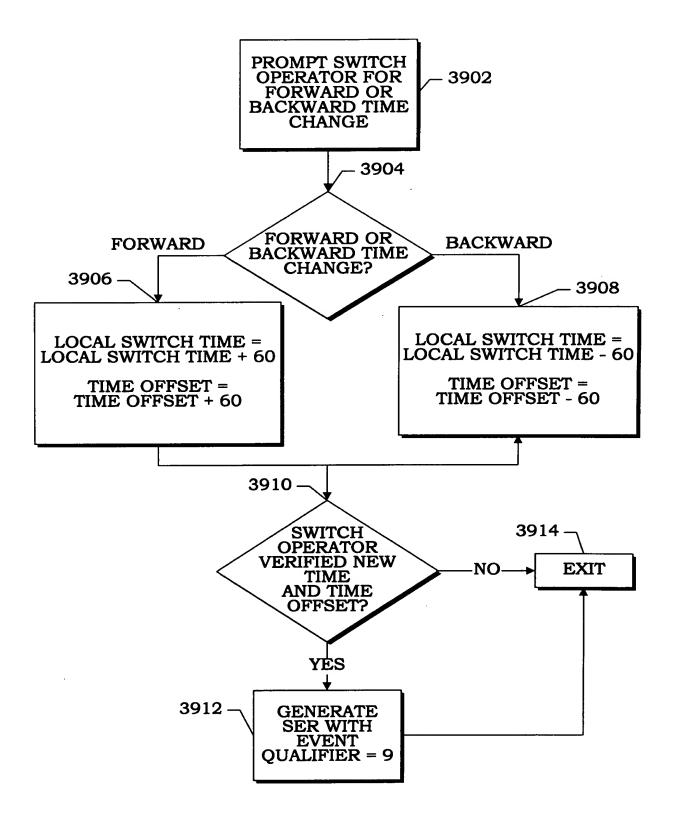


Figure 39

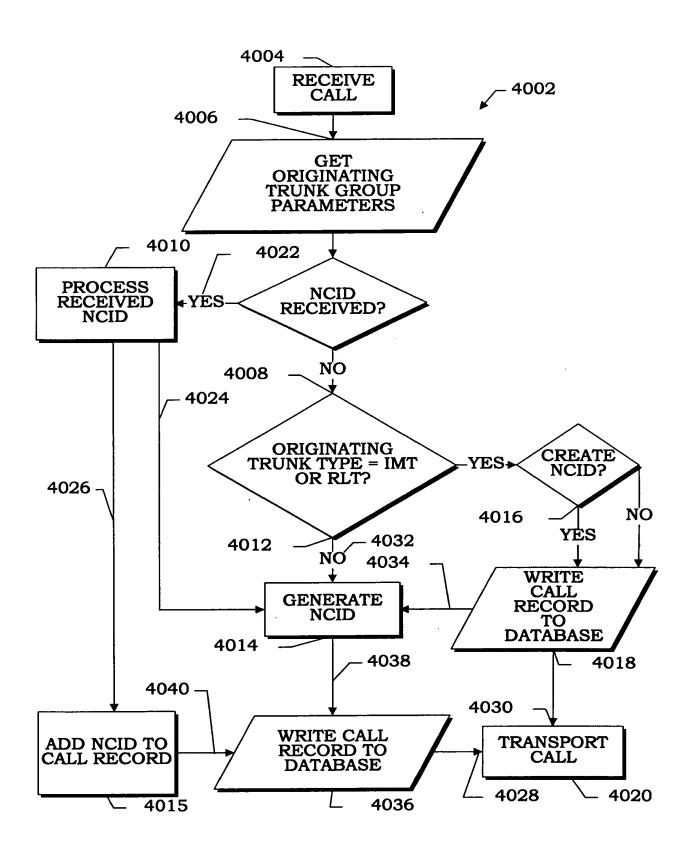


Figure 40

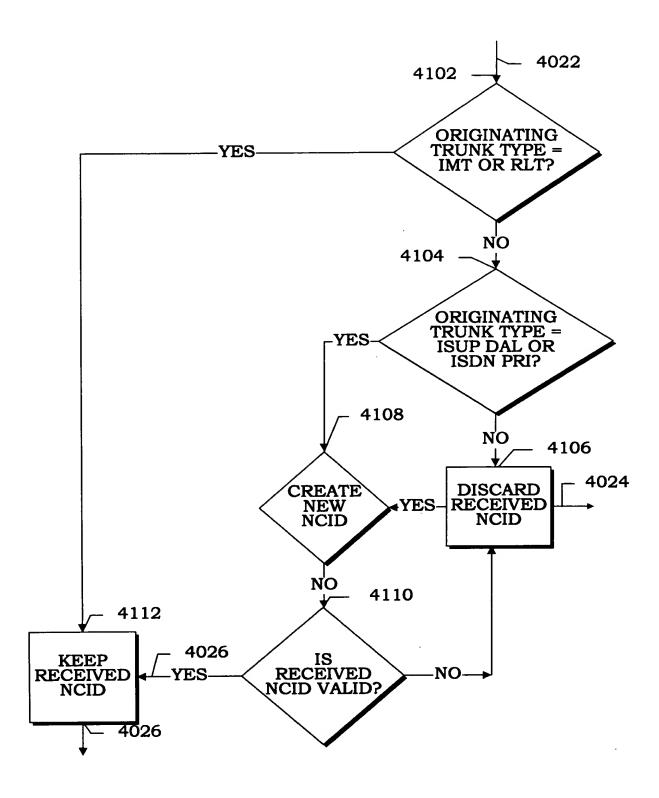


Figure 41

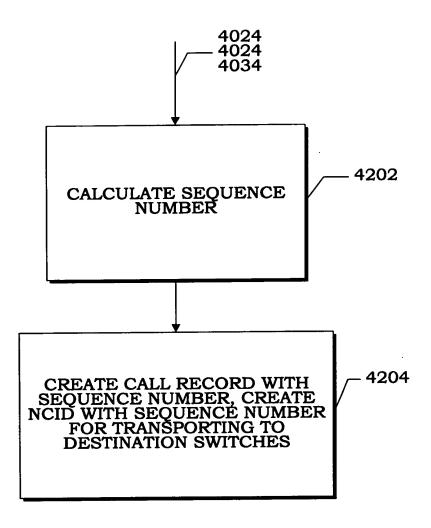


Figure 42

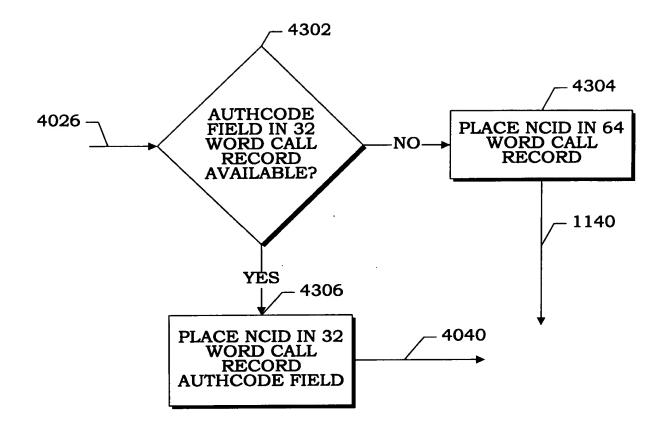
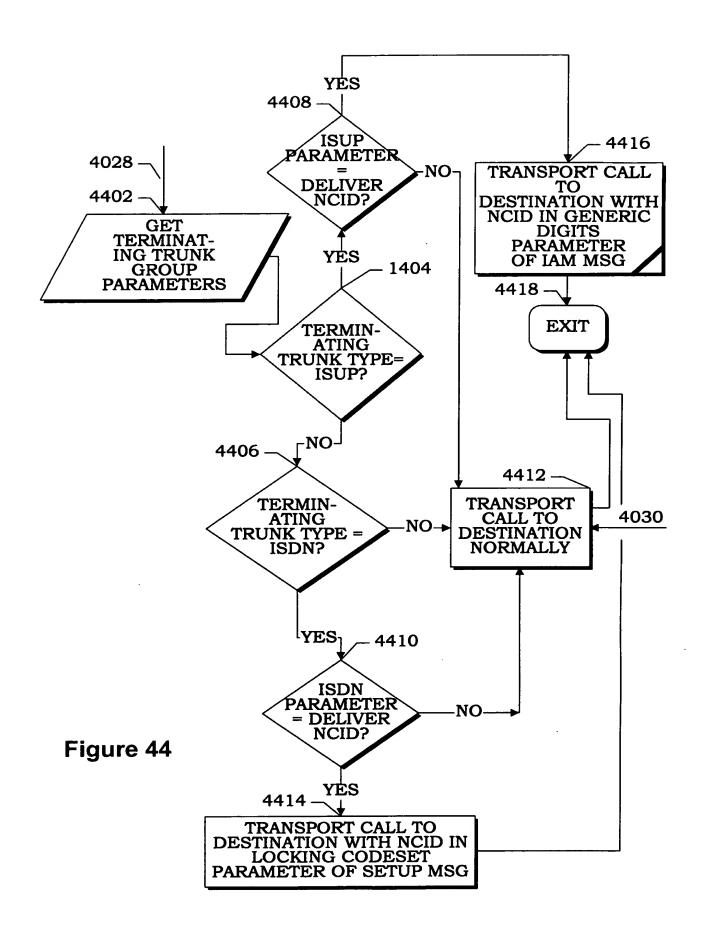


Figure 43



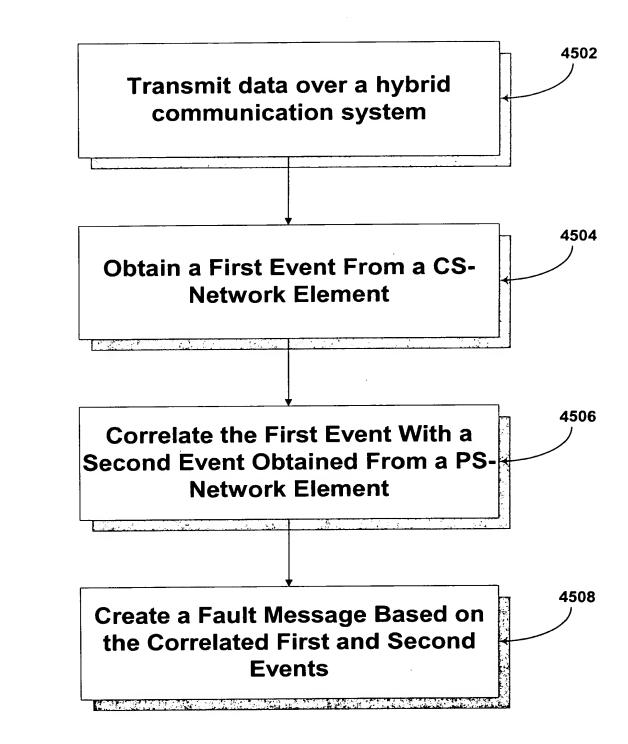


Figure 45



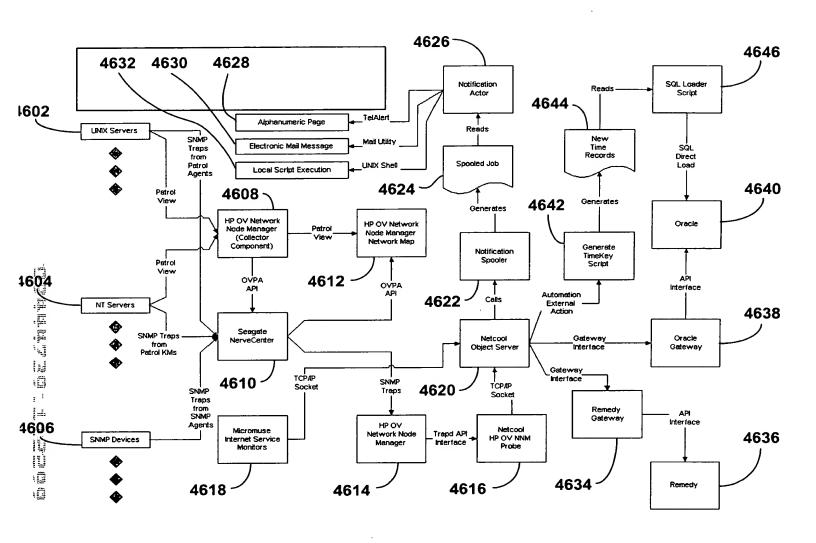


Figure 46

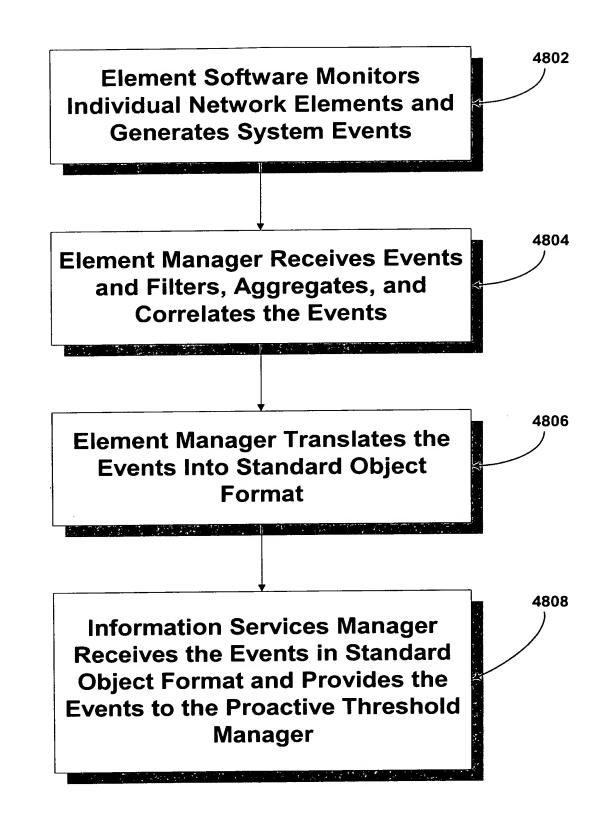


Figure 48

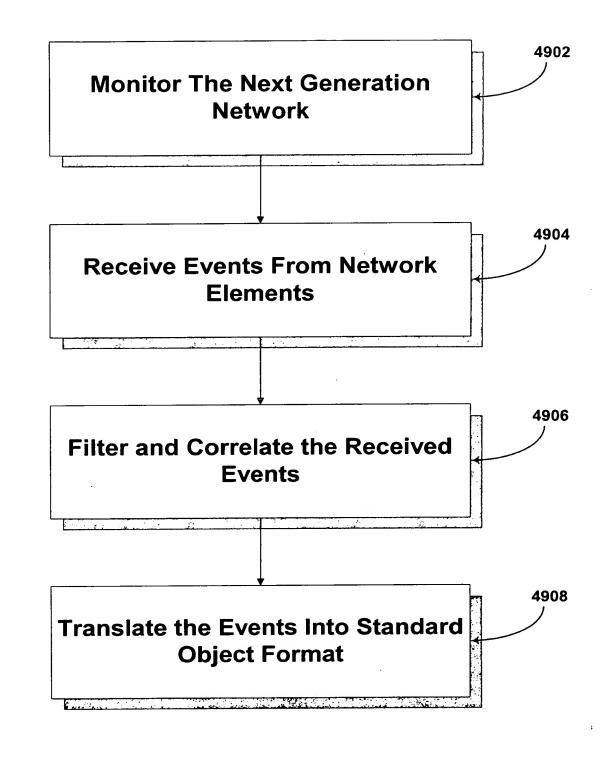


Figure 49

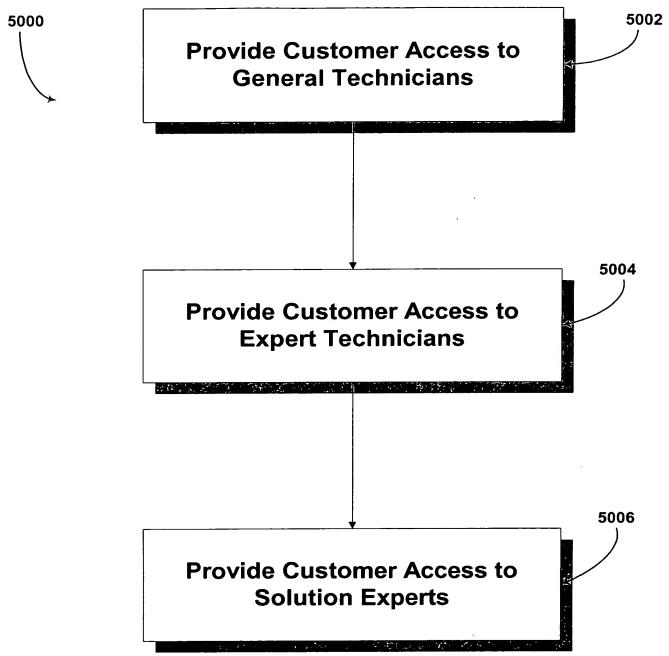


Figure 50

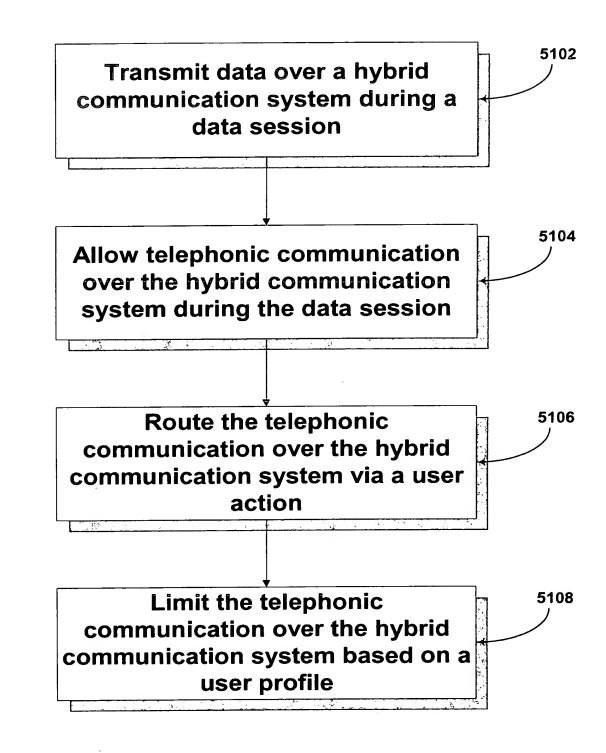


Figure 51

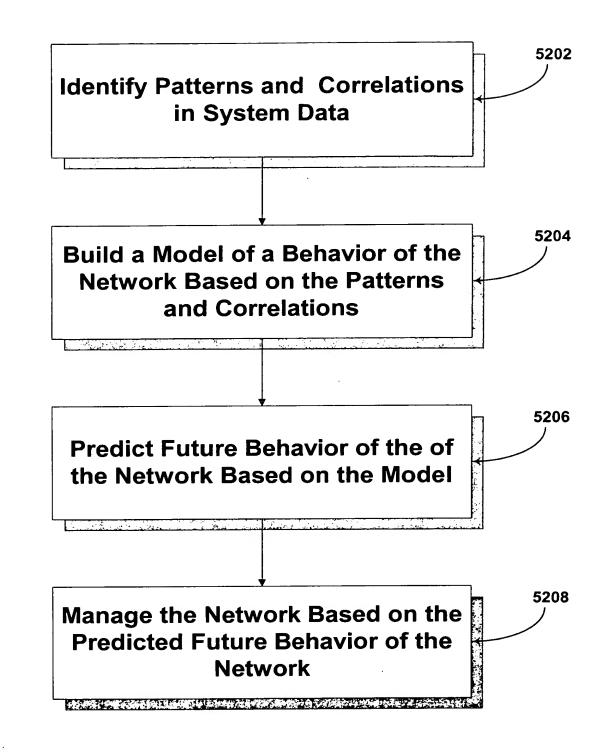


Figure 52

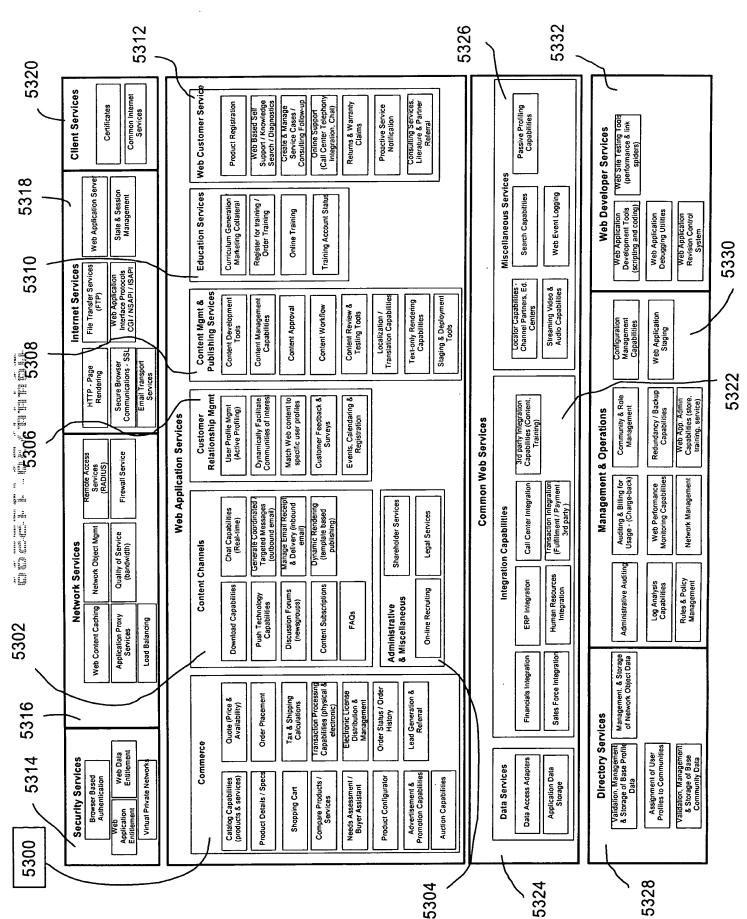
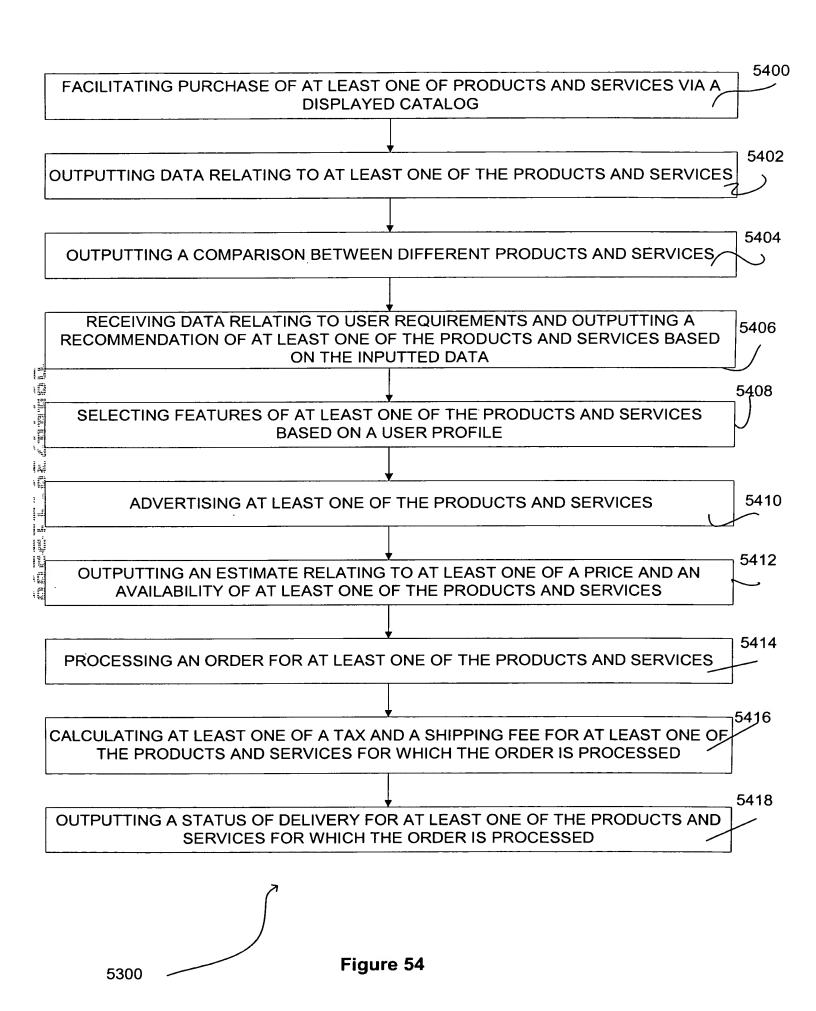


Figure 53



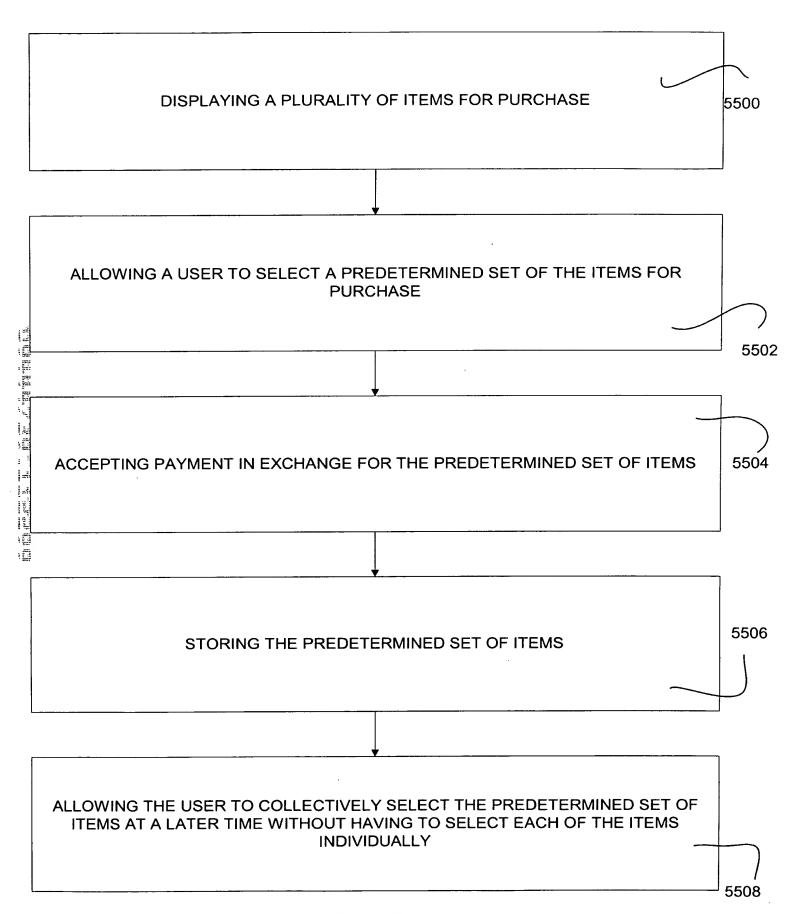
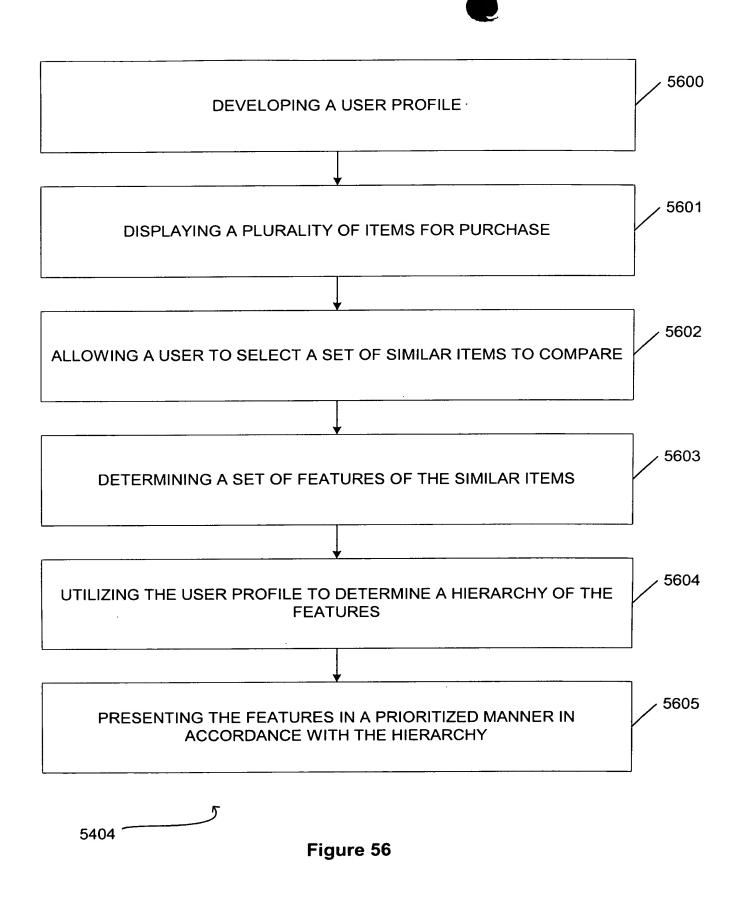


Figure 55



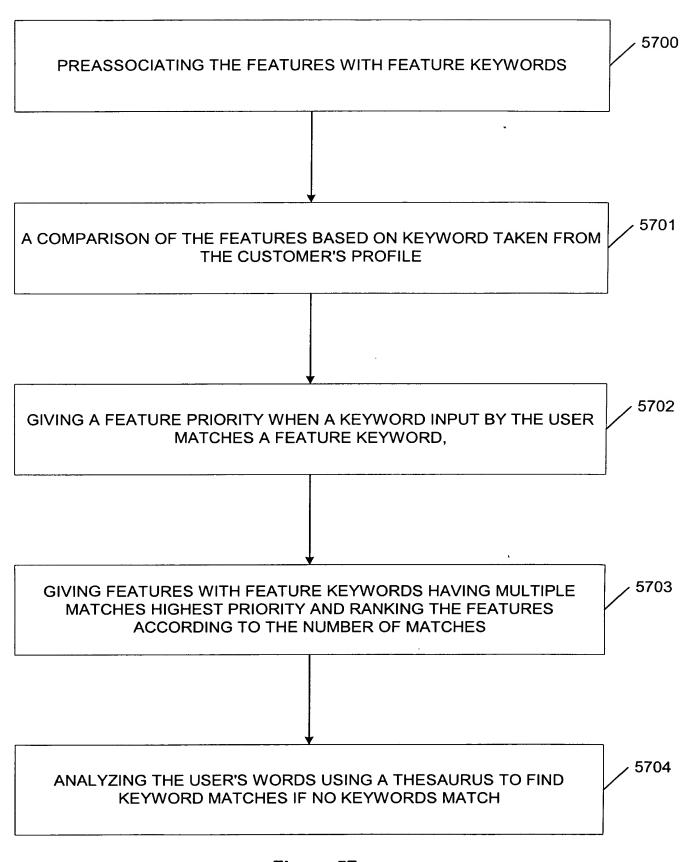
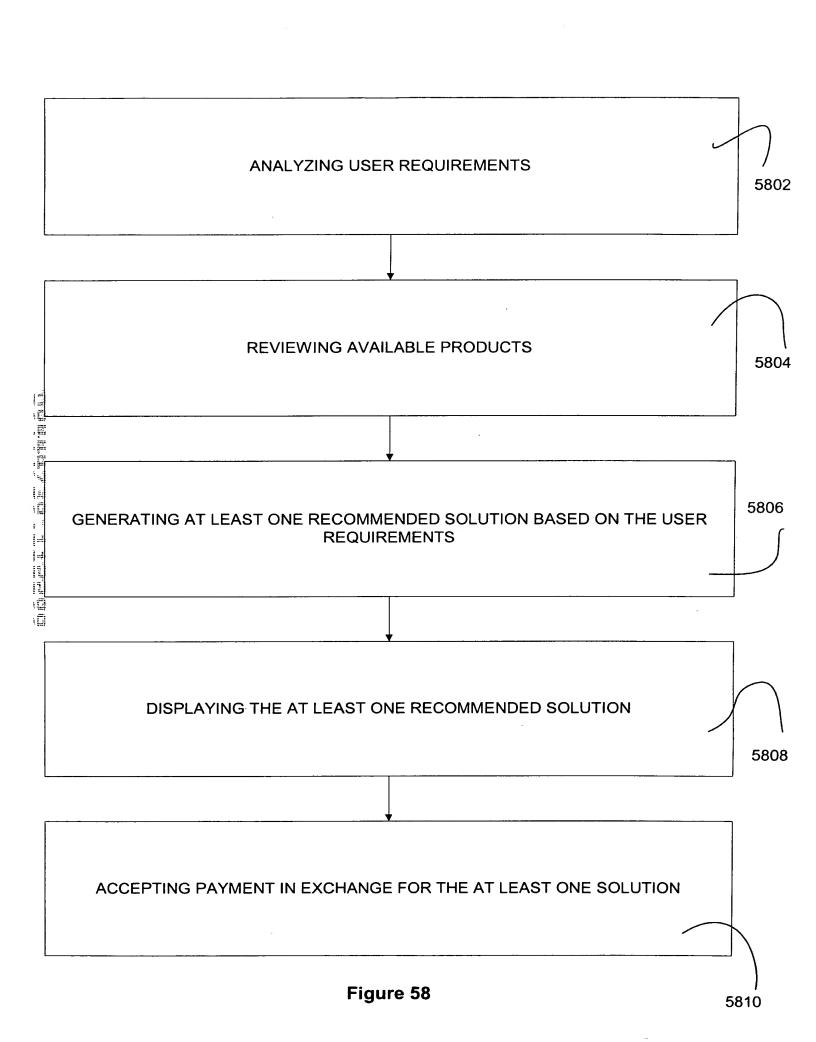
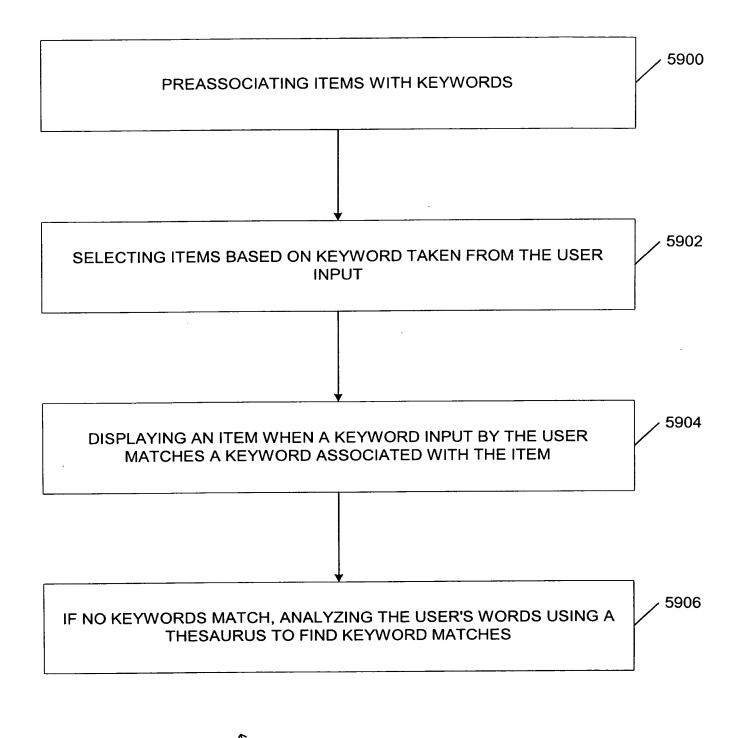
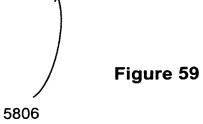


Figure 57







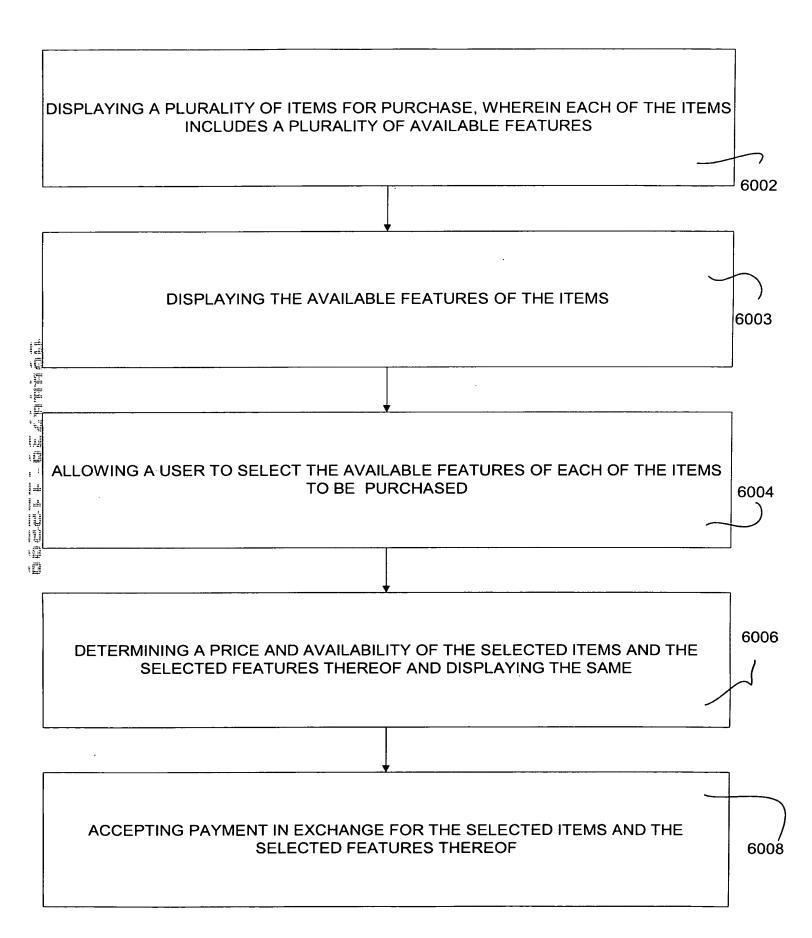


Figure 60

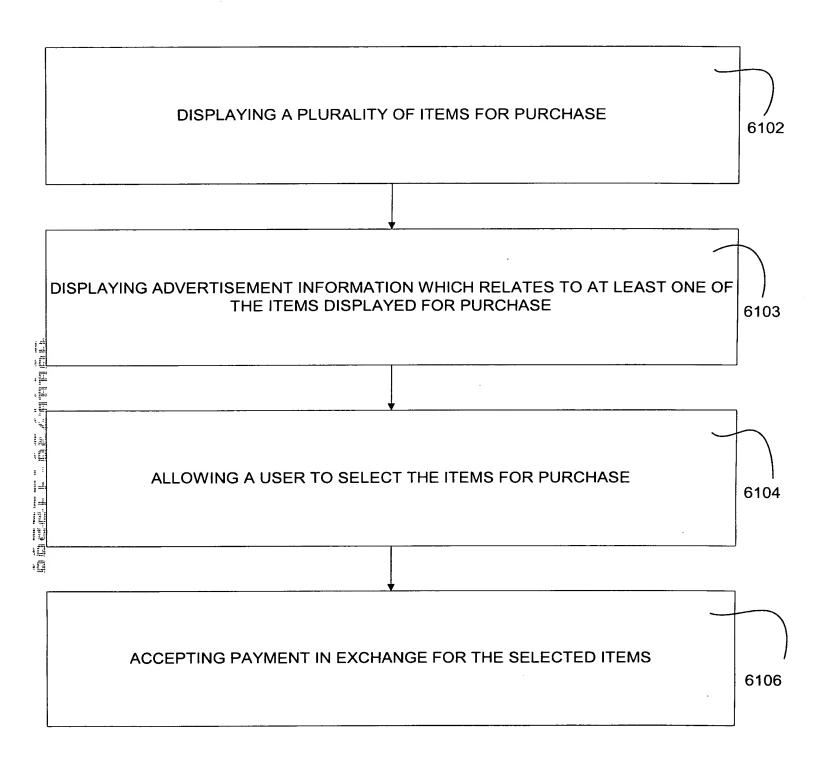
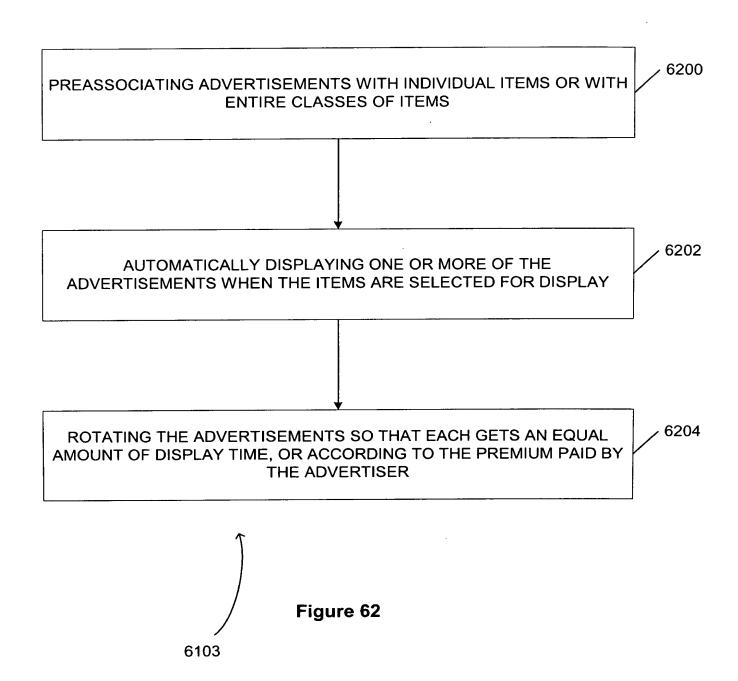
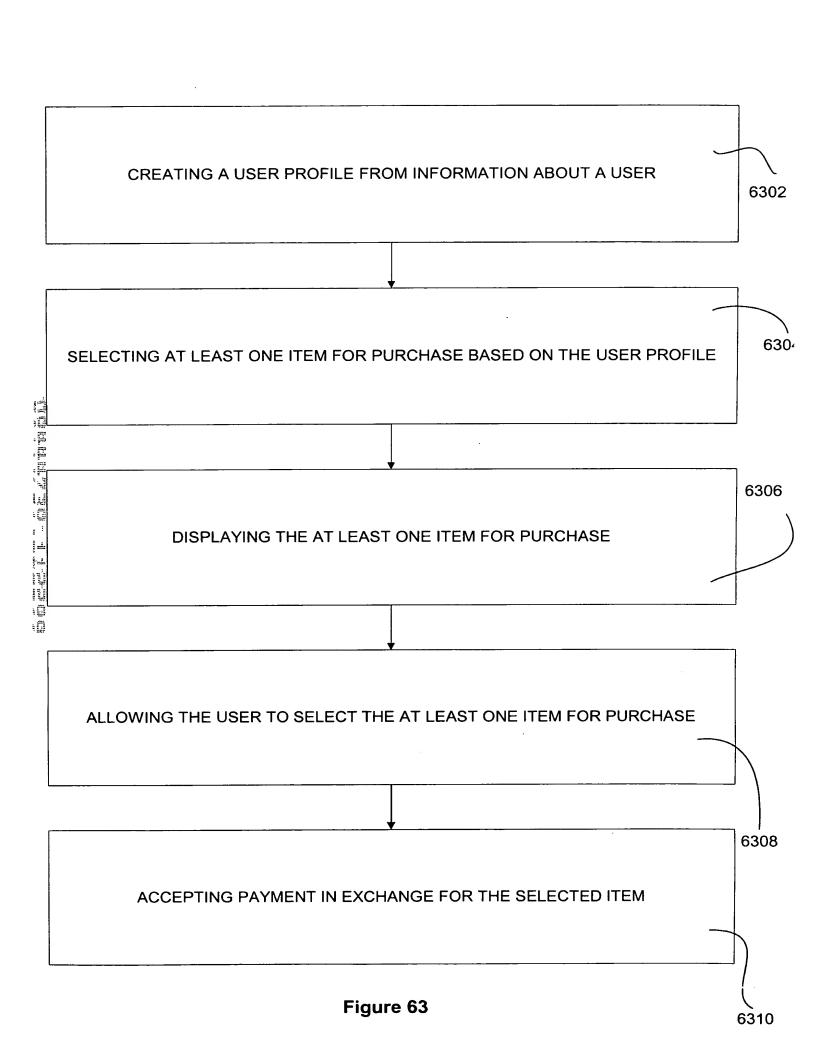
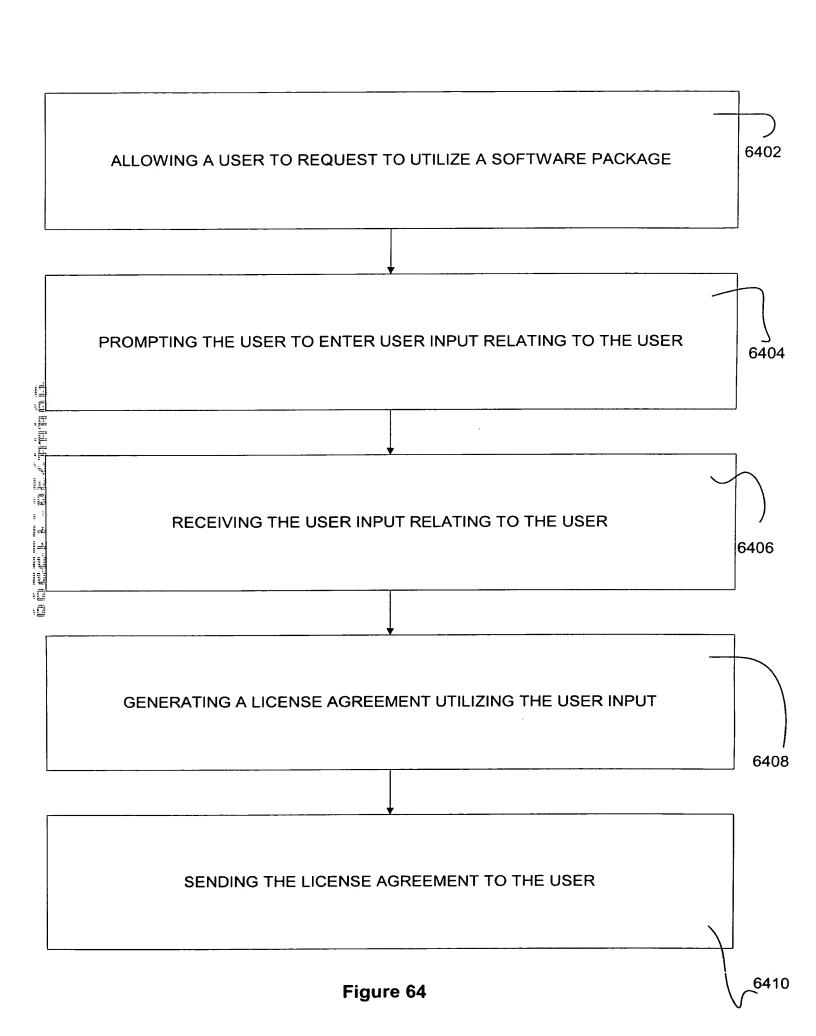
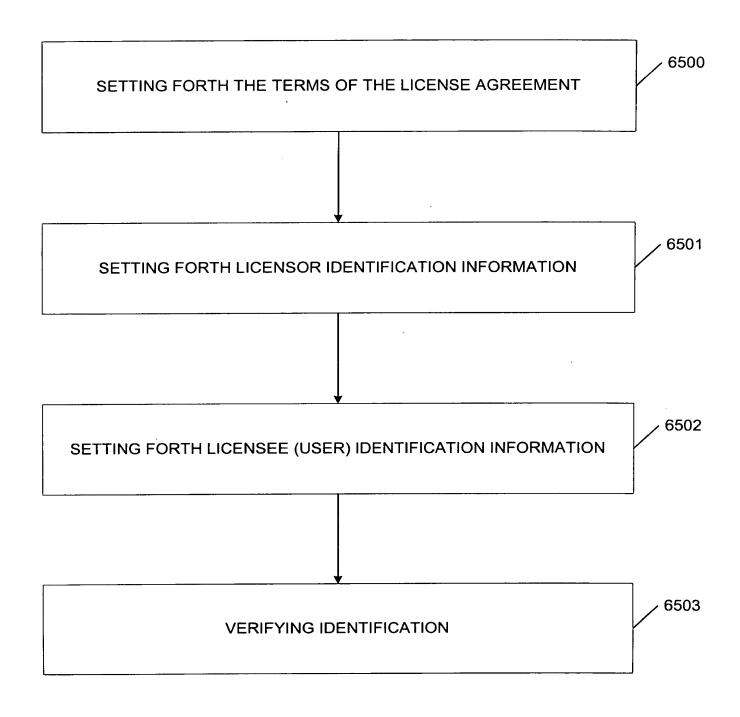


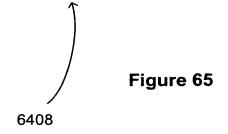
Figure 61











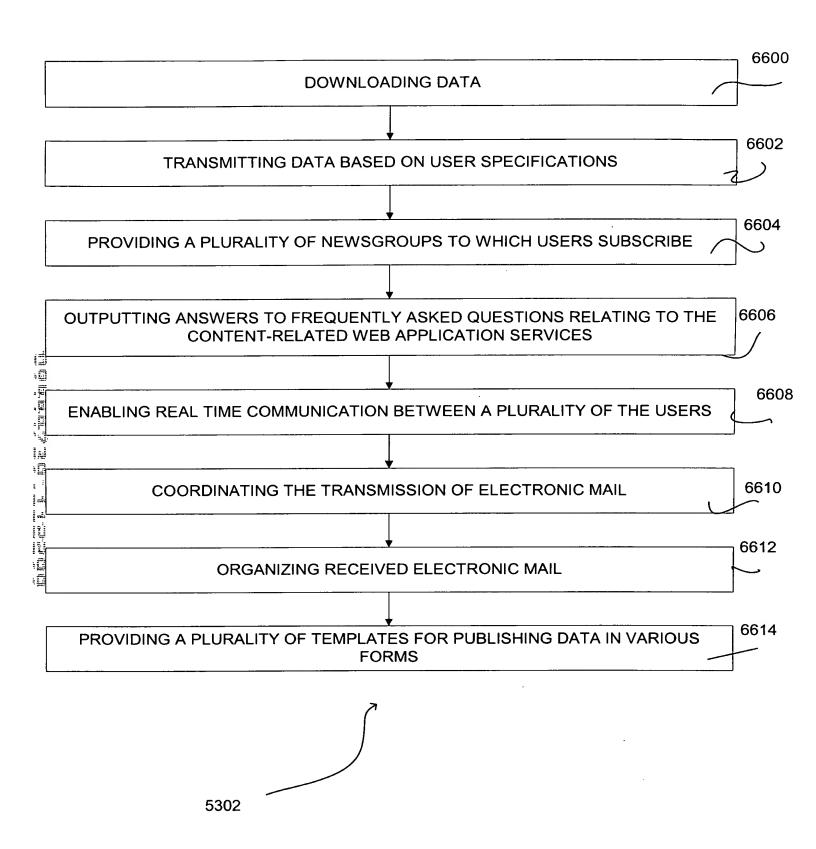
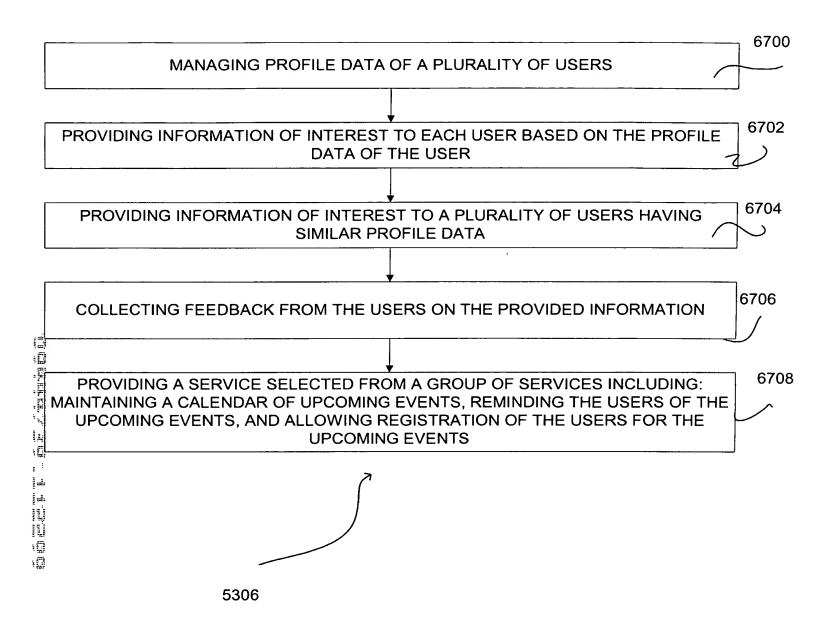
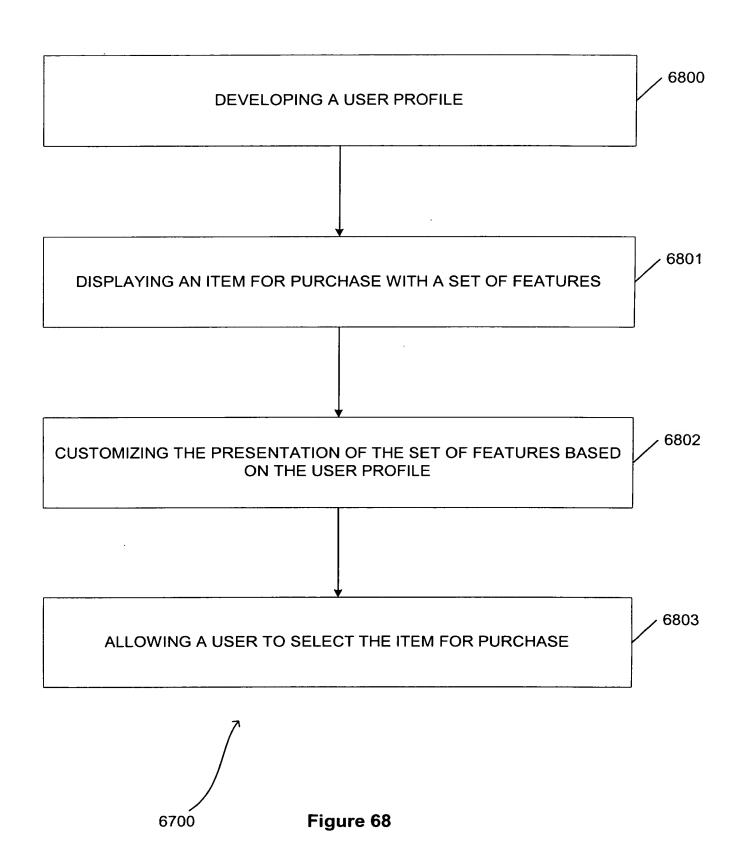
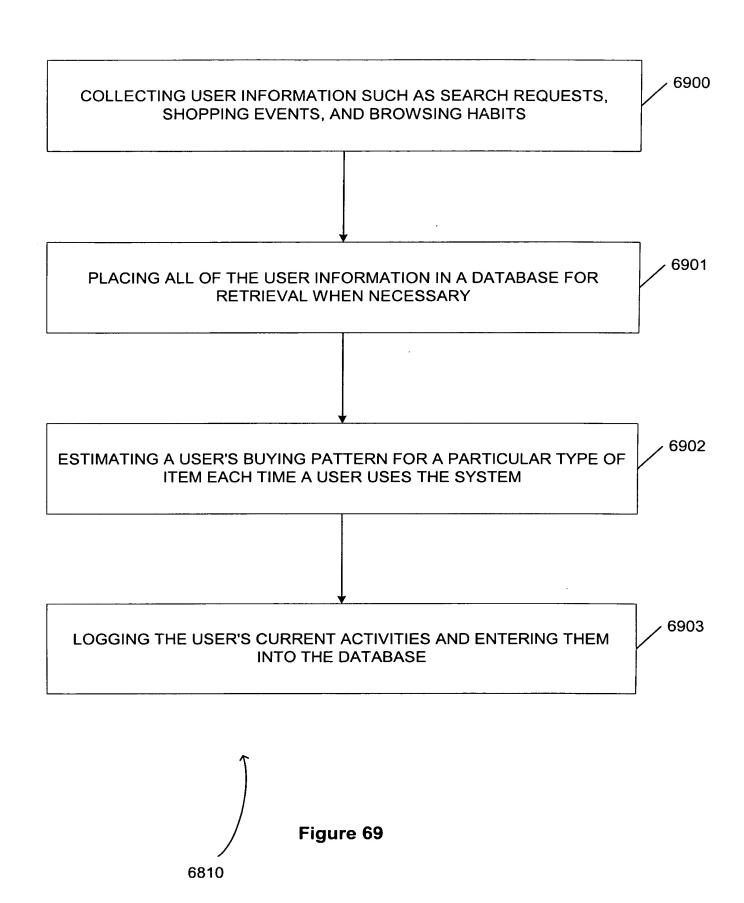
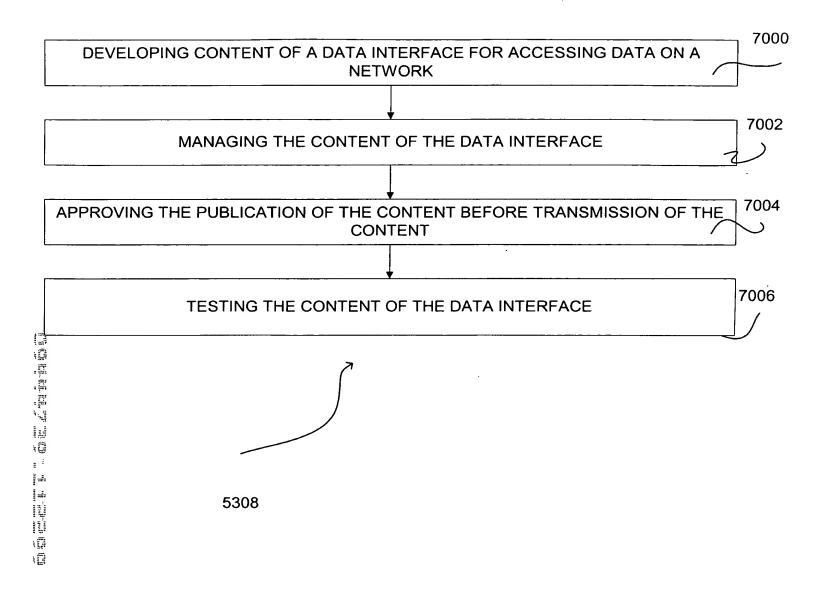


Figure 66









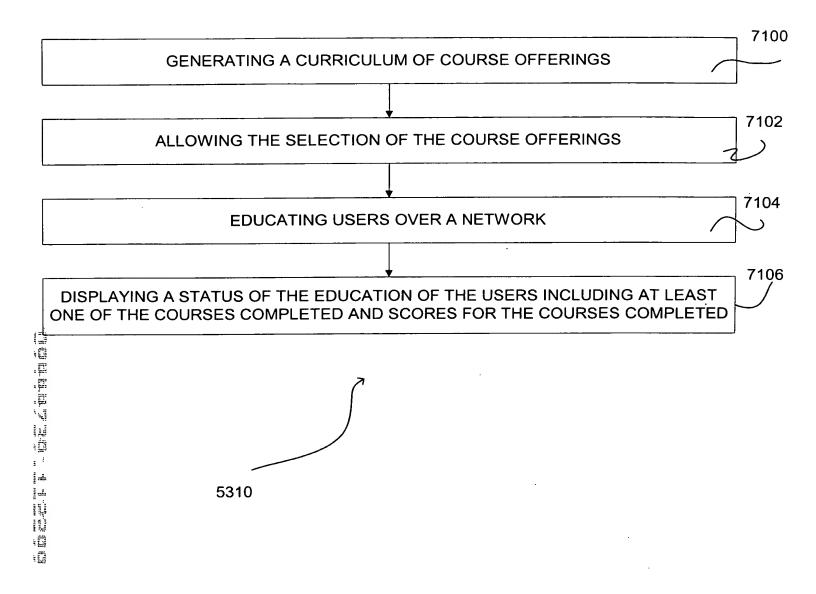


Figure 71

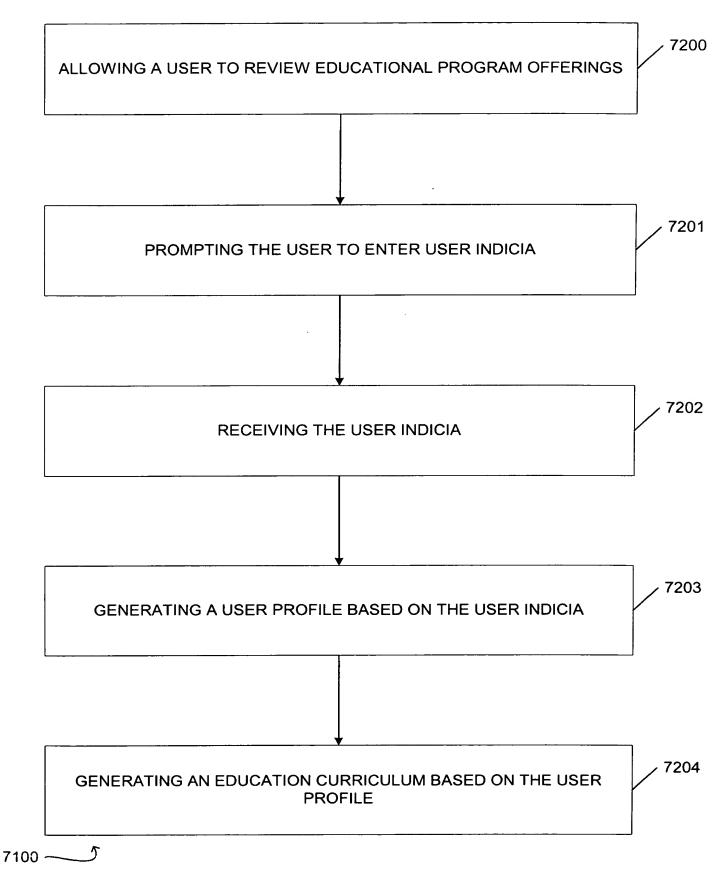


Figure 72

7203

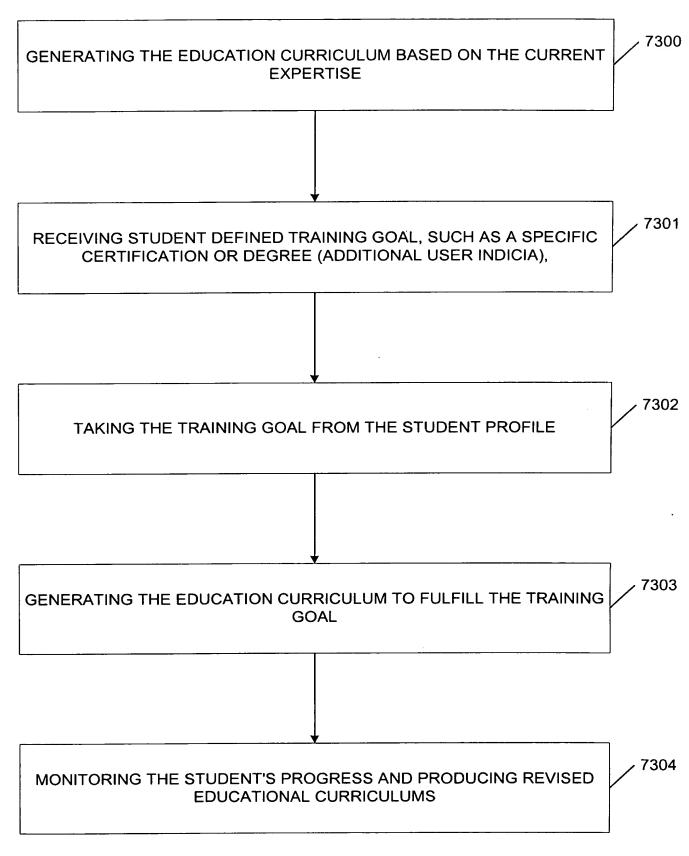


Figure 73

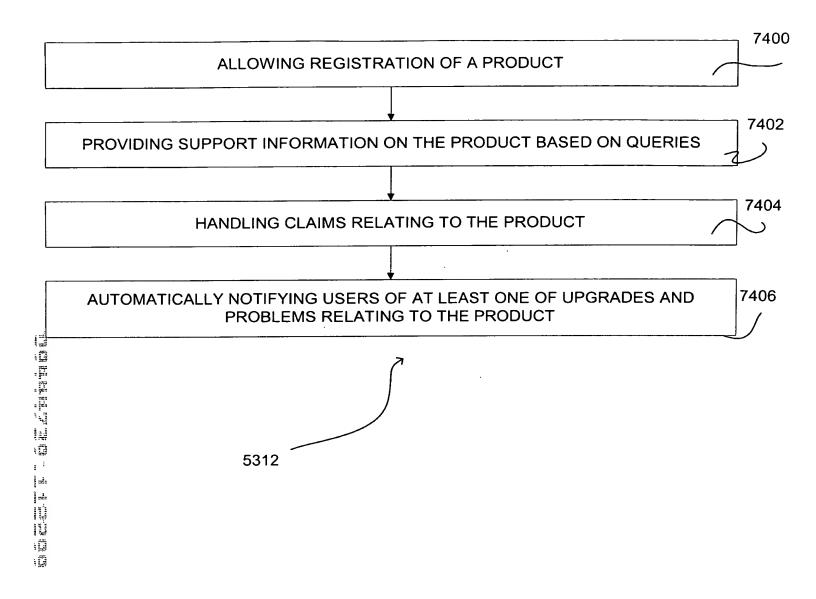
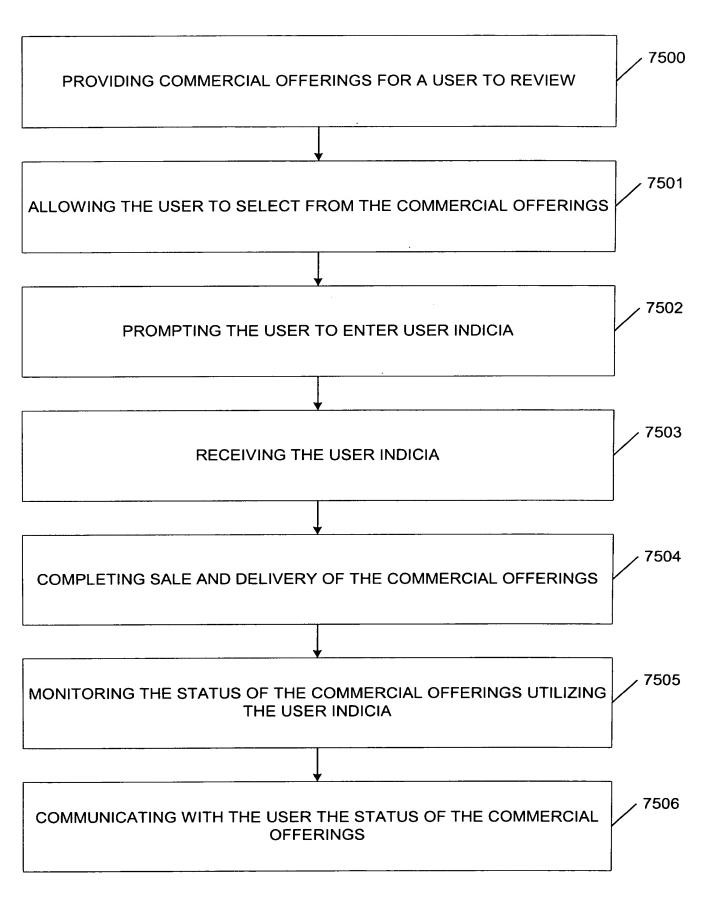
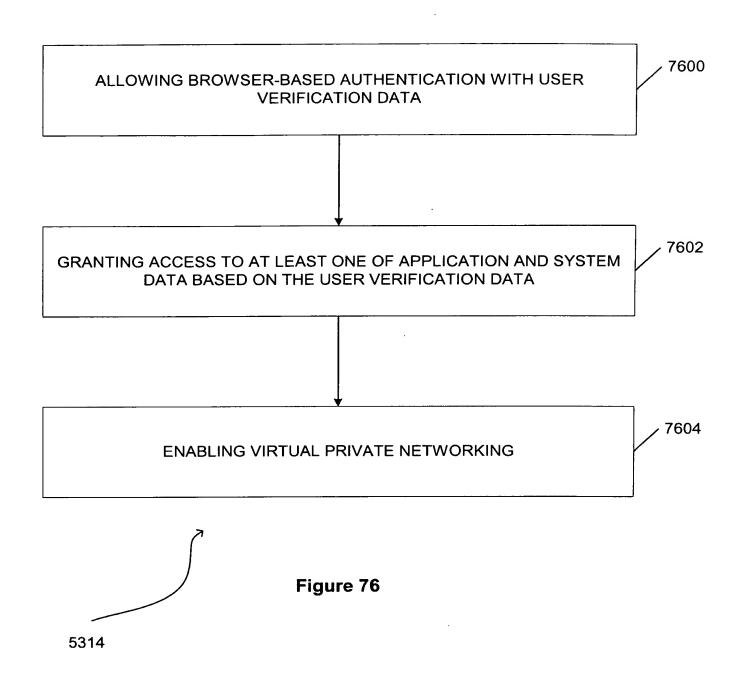


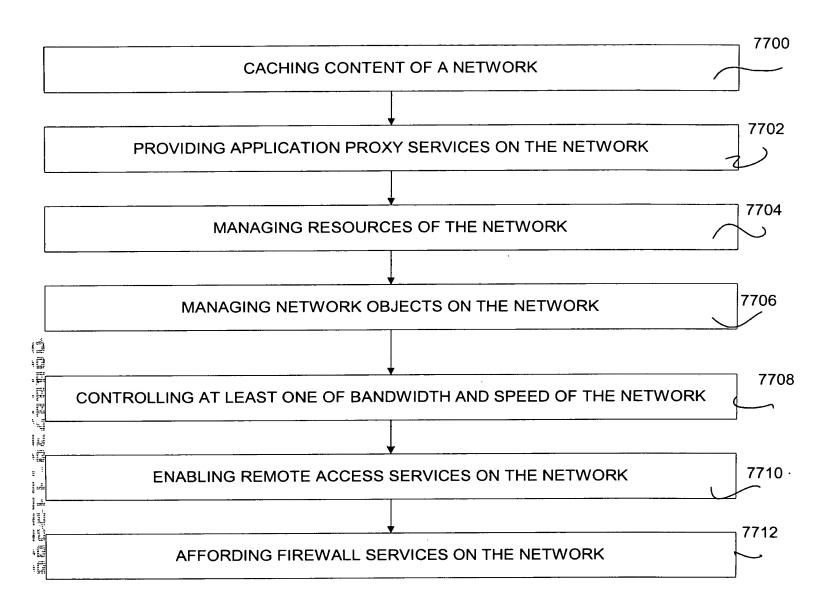
Figure 74

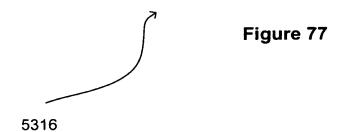


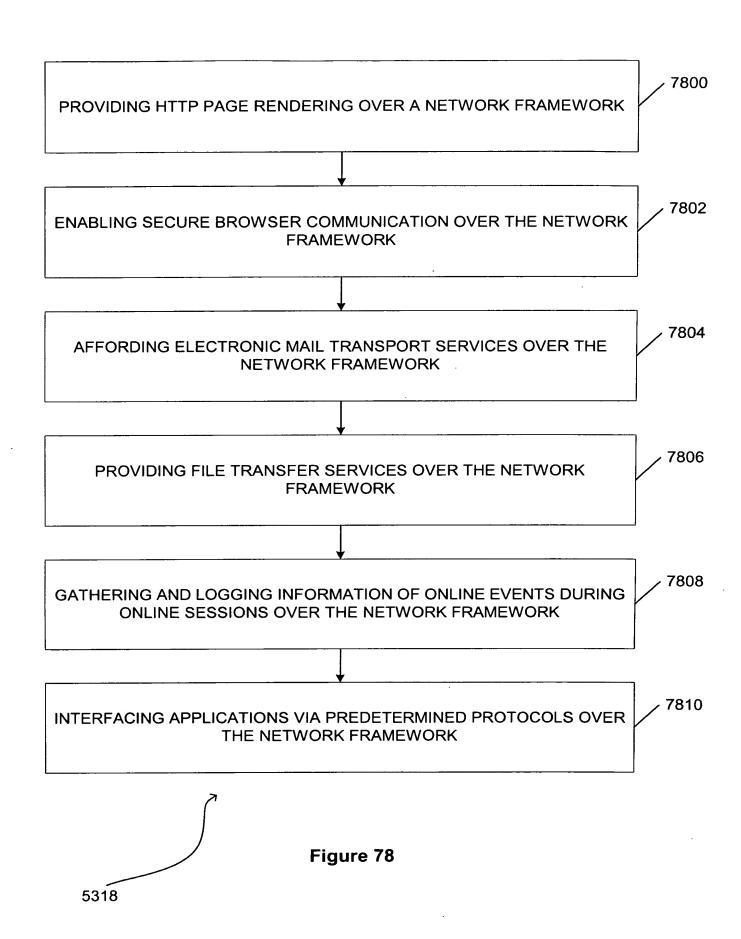
7406 — 5

Figure 75









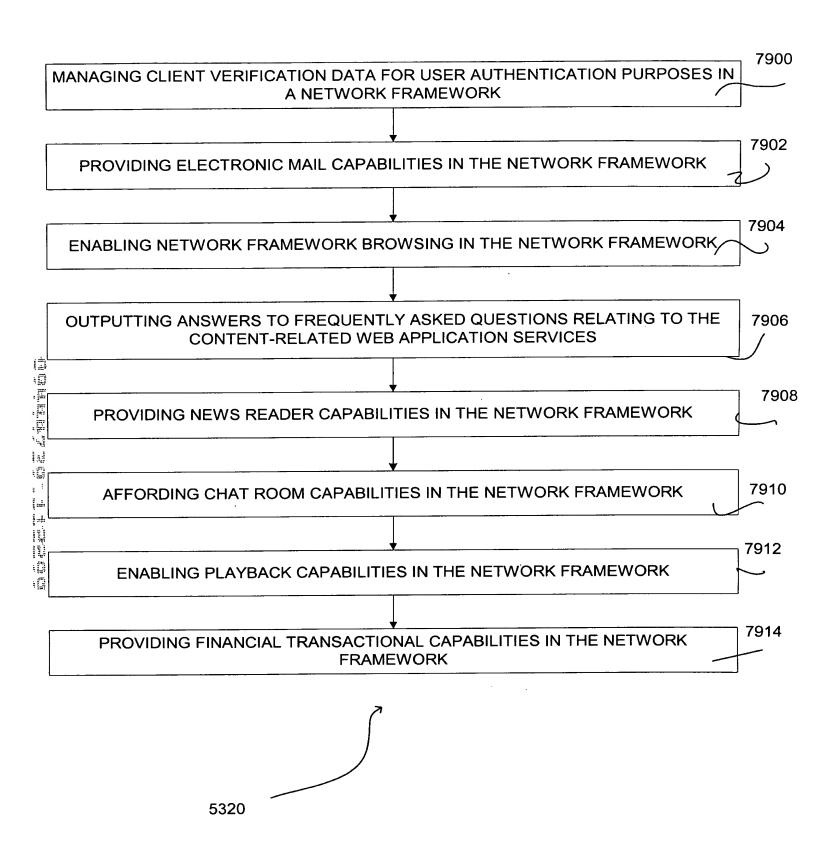
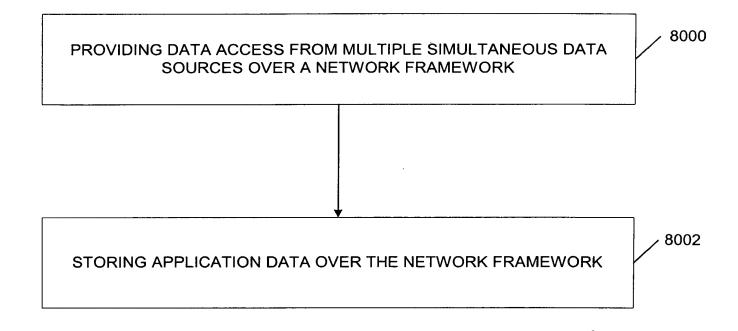
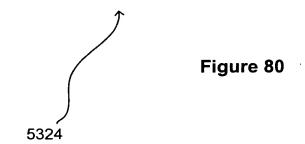
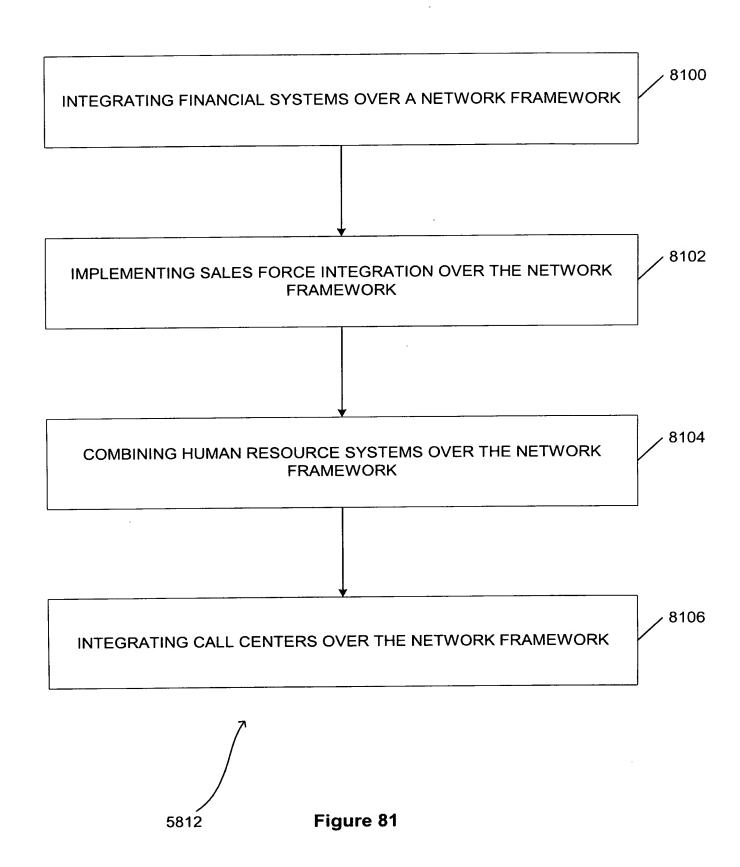
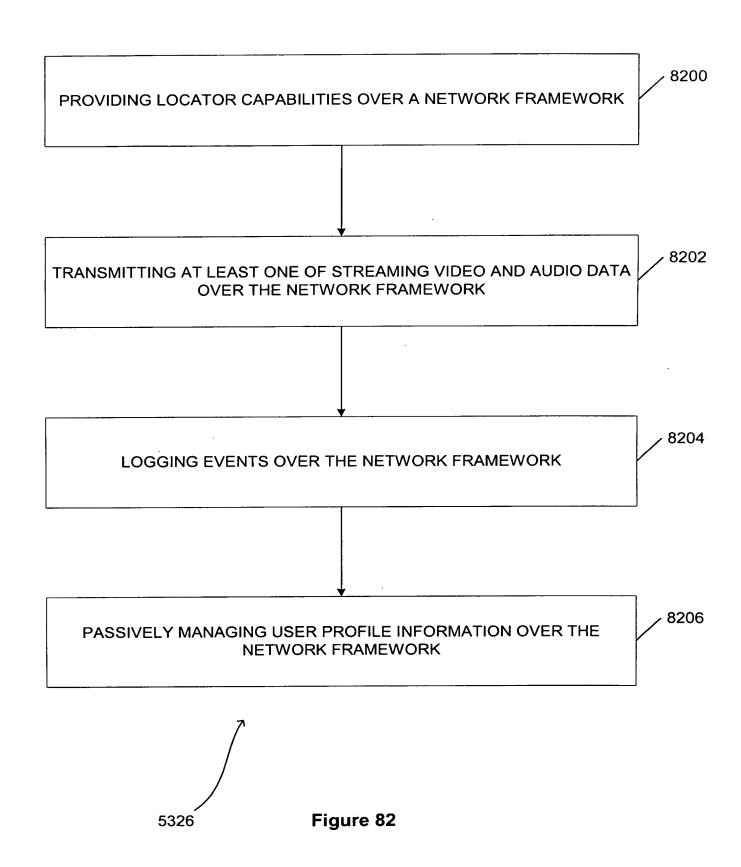


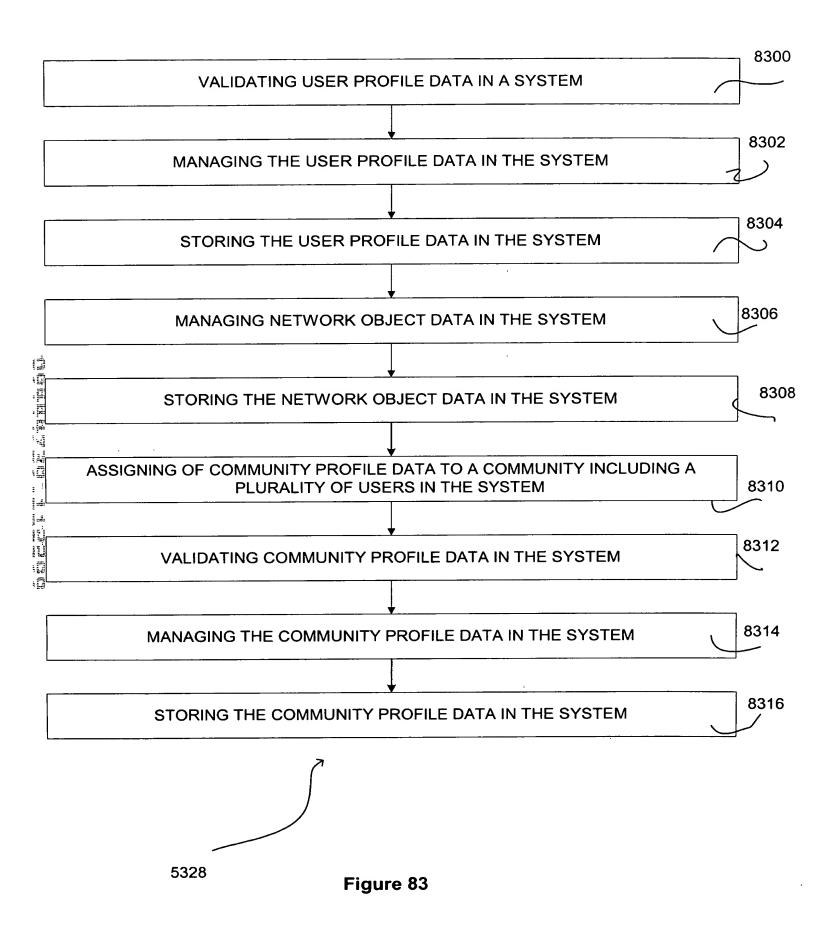
Figure 79

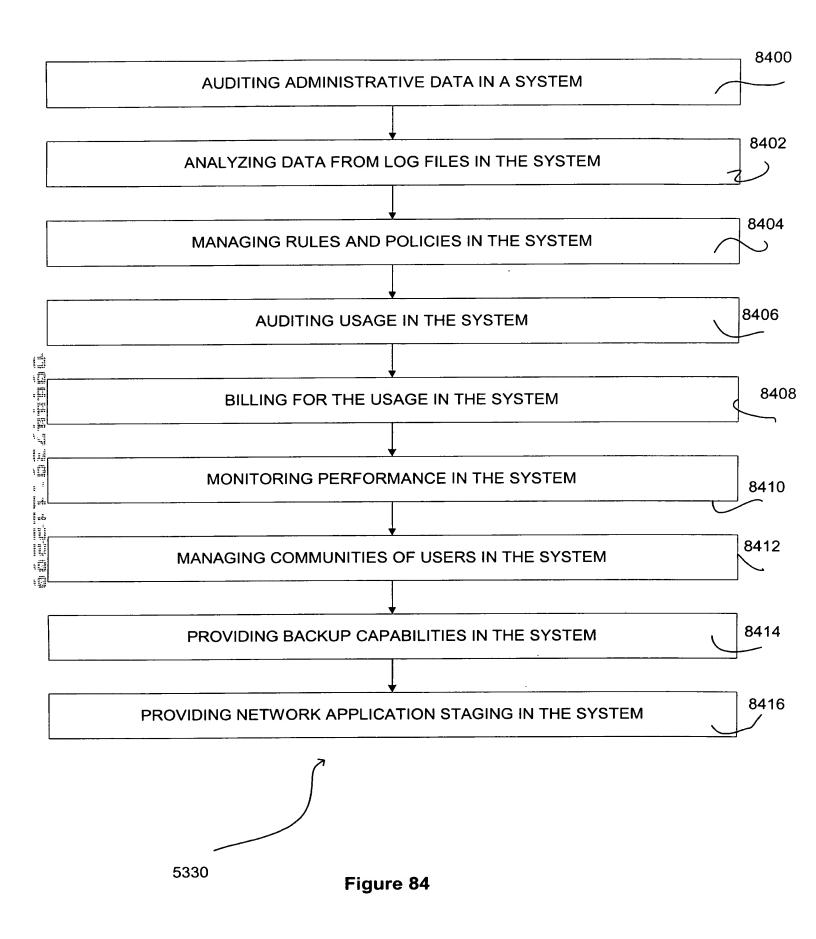


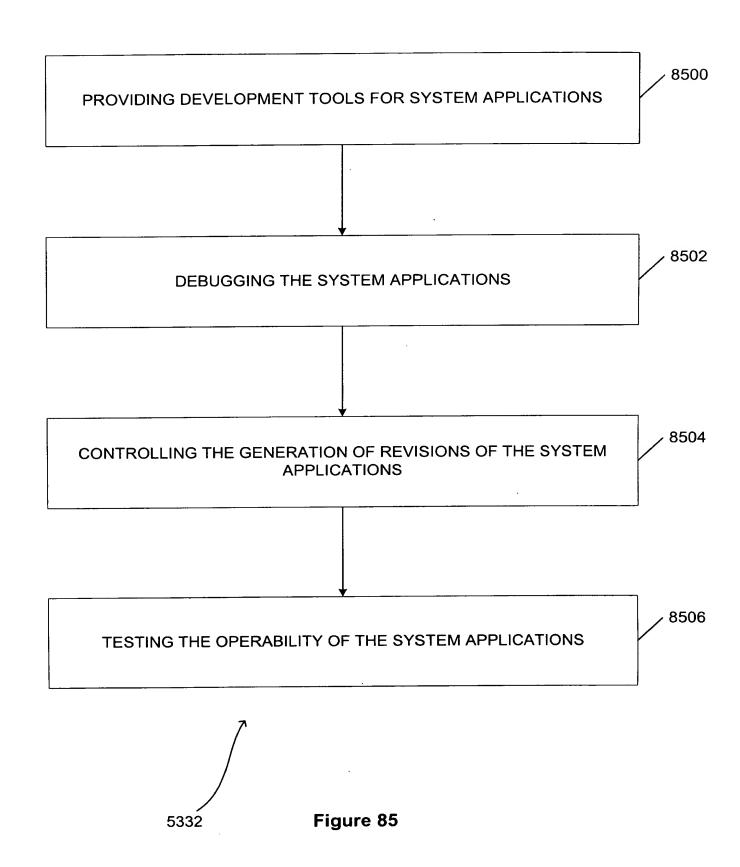












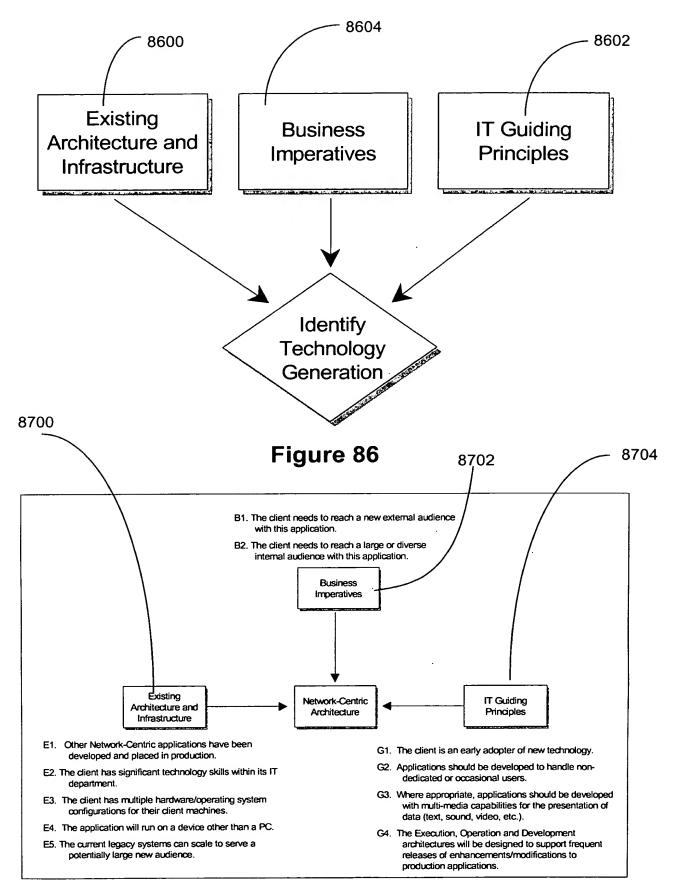
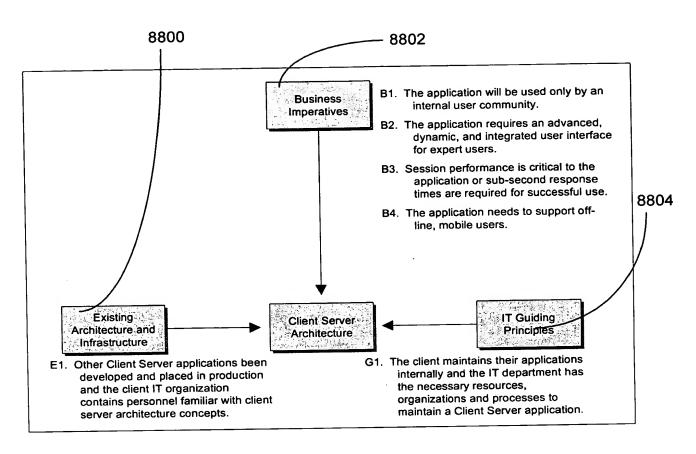


Figure 87



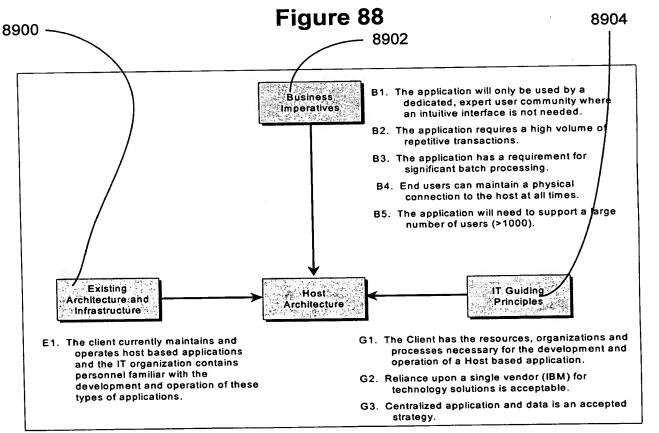


Figure 89

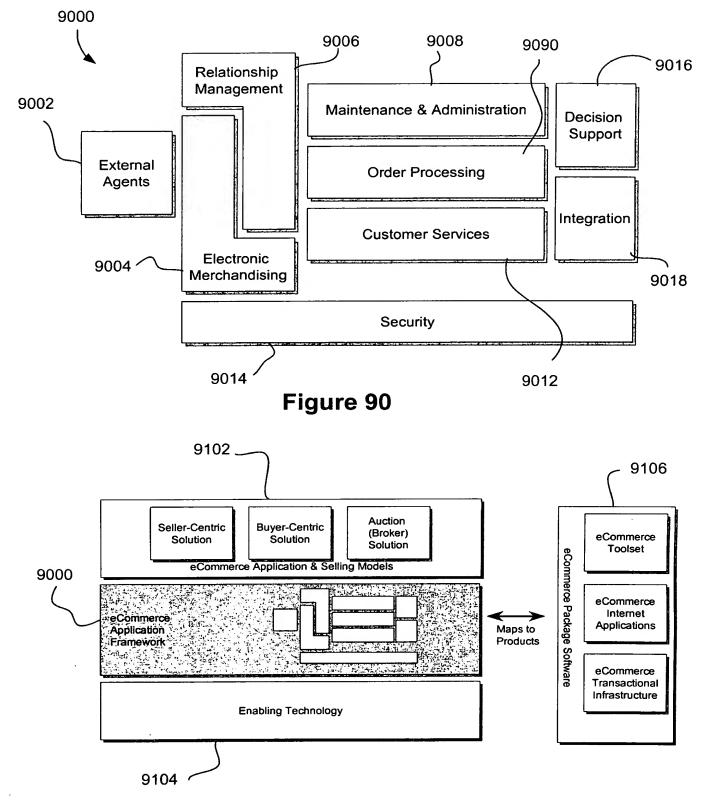


Figure 91

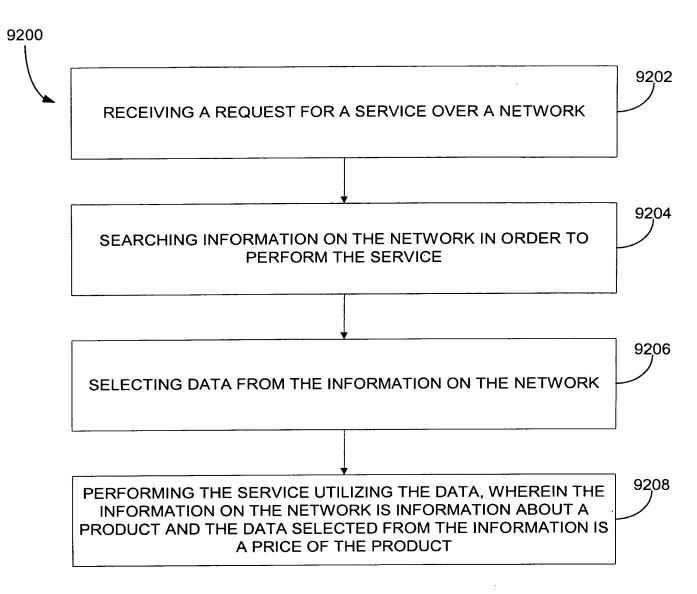


Figure 92

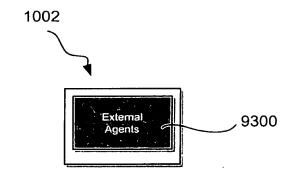


Figure 93

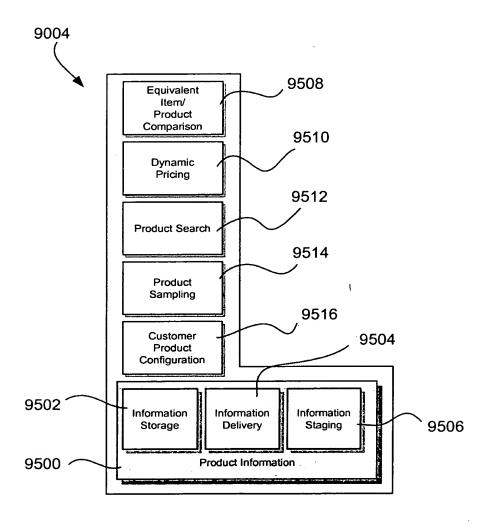


Figure 95

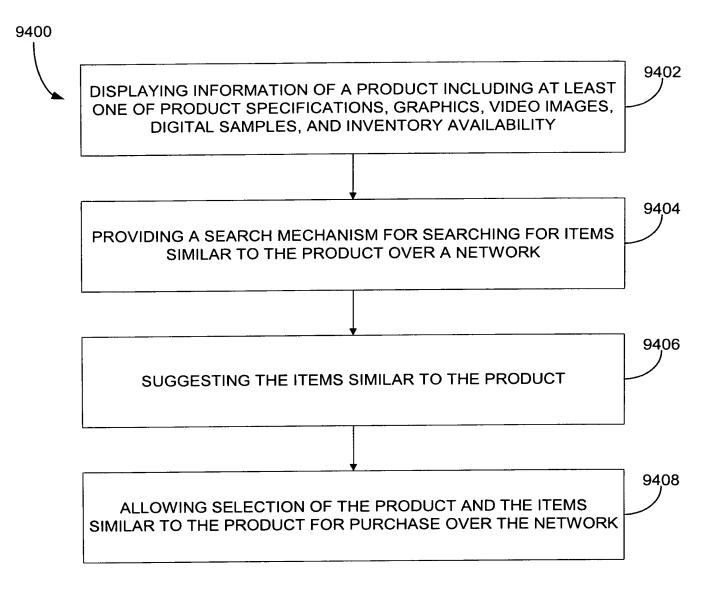


Figure 94

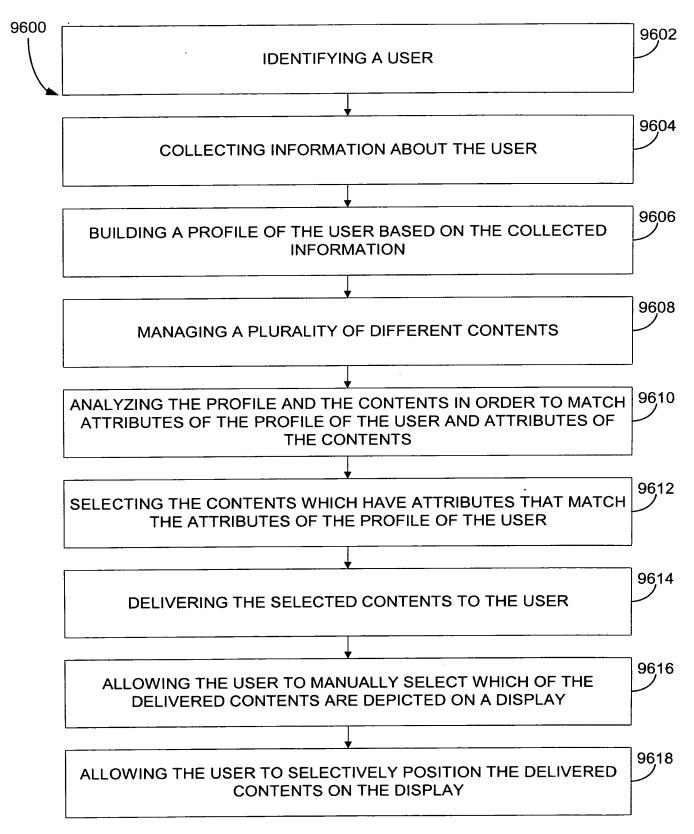
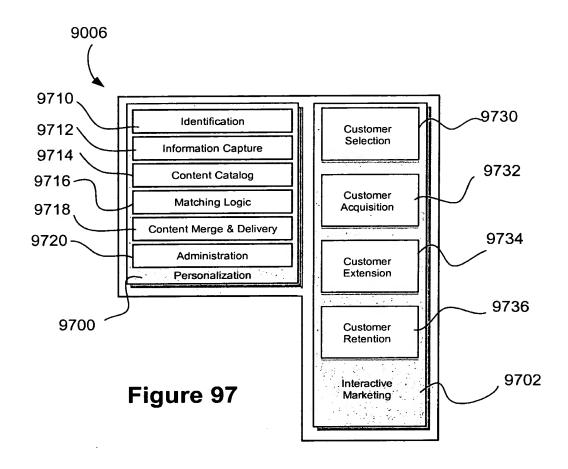


Figure 96



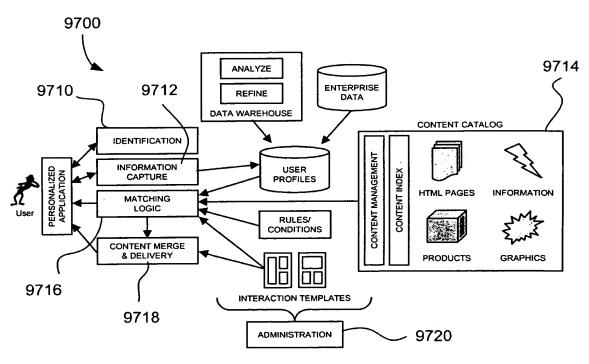
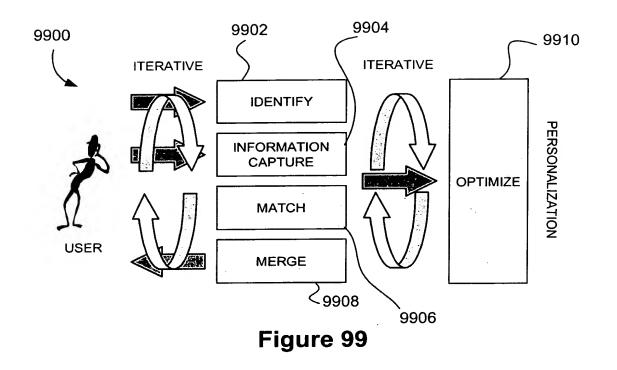


Figure 98



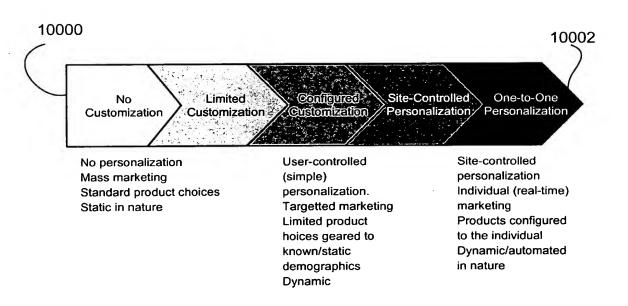


Figure 100

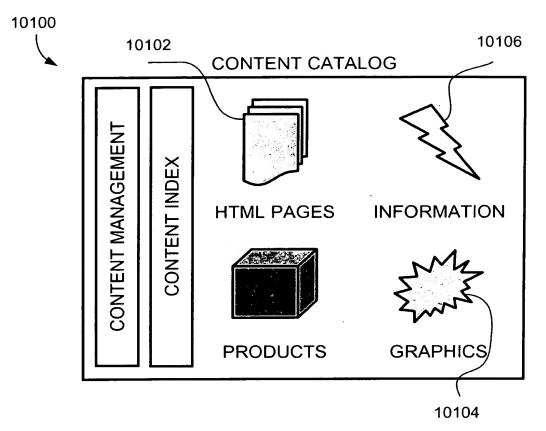
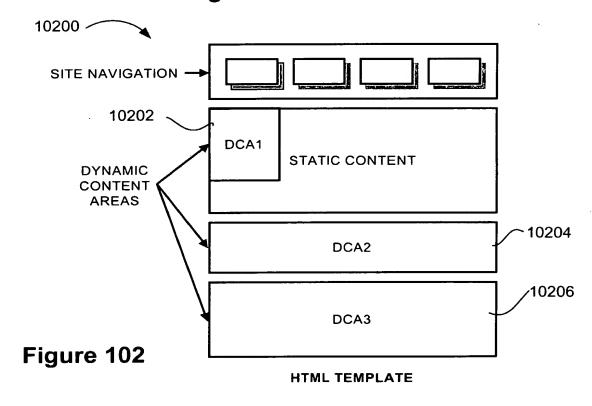


Figure 101



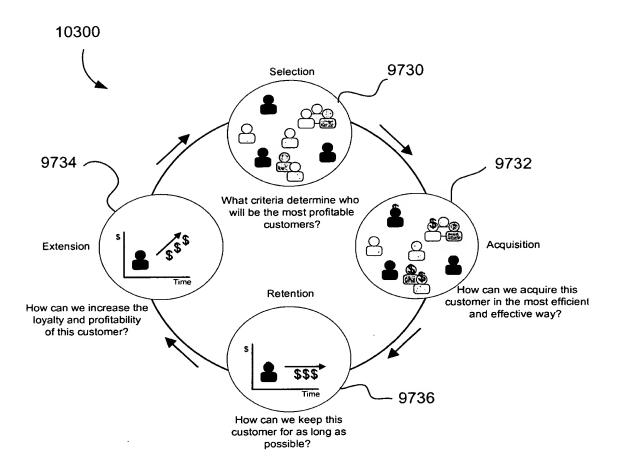


Figure 103

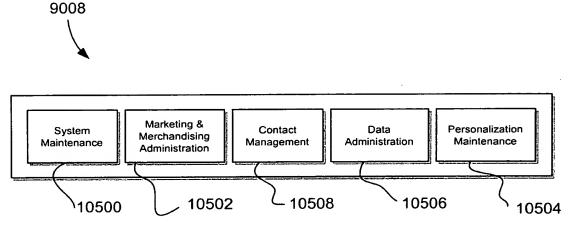


Figure 105

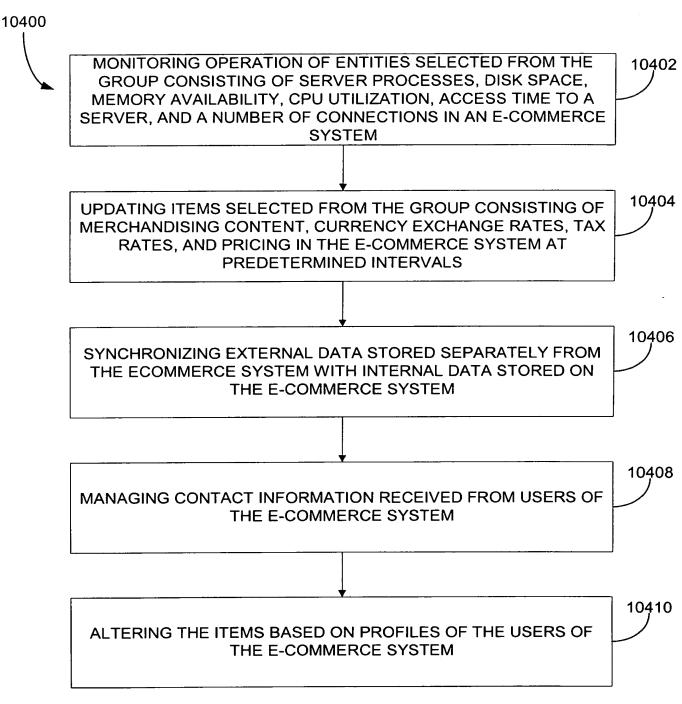
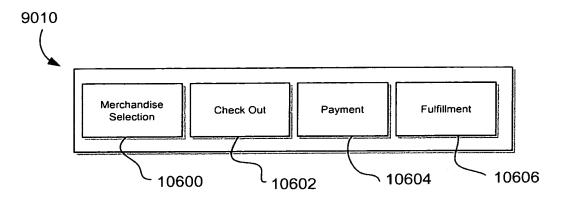


Figure 104



## Figure 106

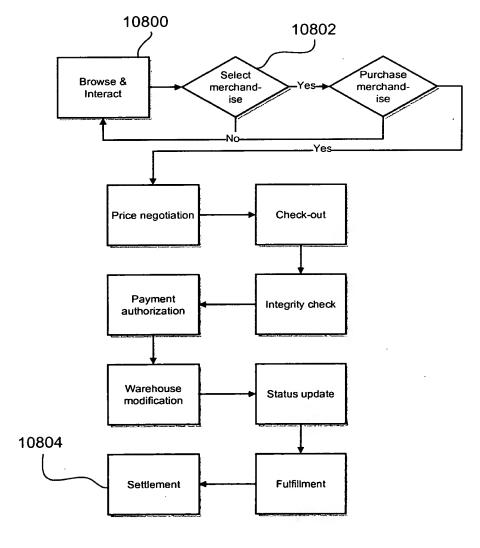


Figure 108

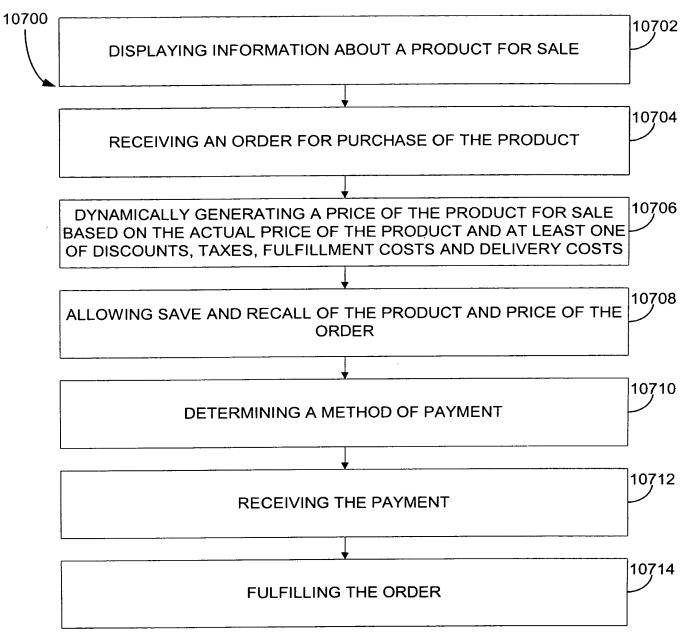


Figure 107

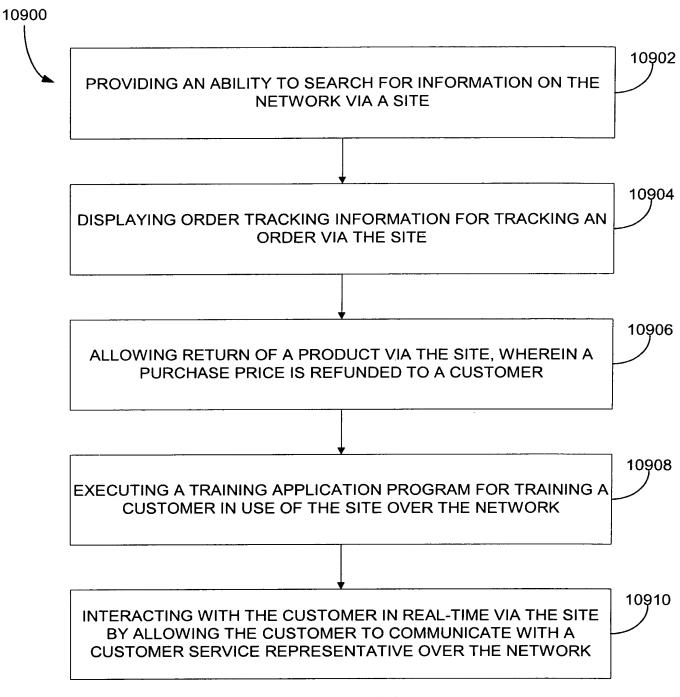


Figure 109



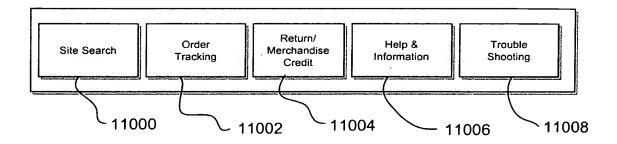


Figure 110

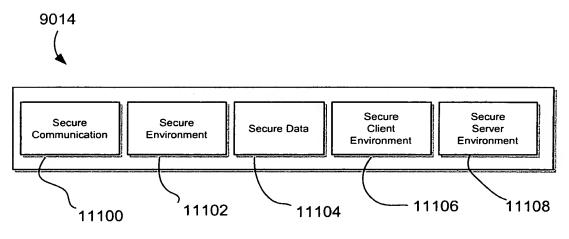


Figure 111

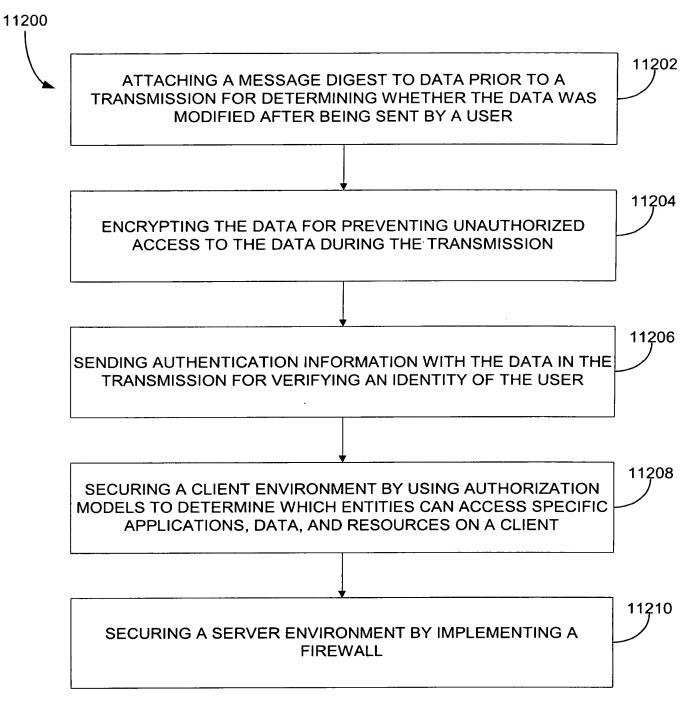


Figure 112

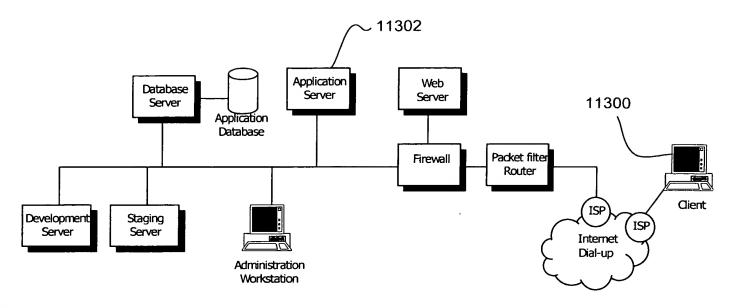


Figure 113

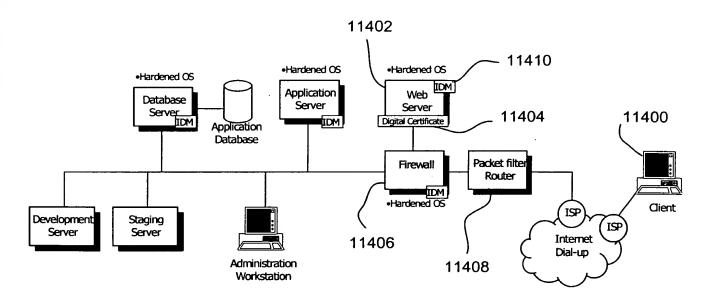


Figure 114

Figure 115

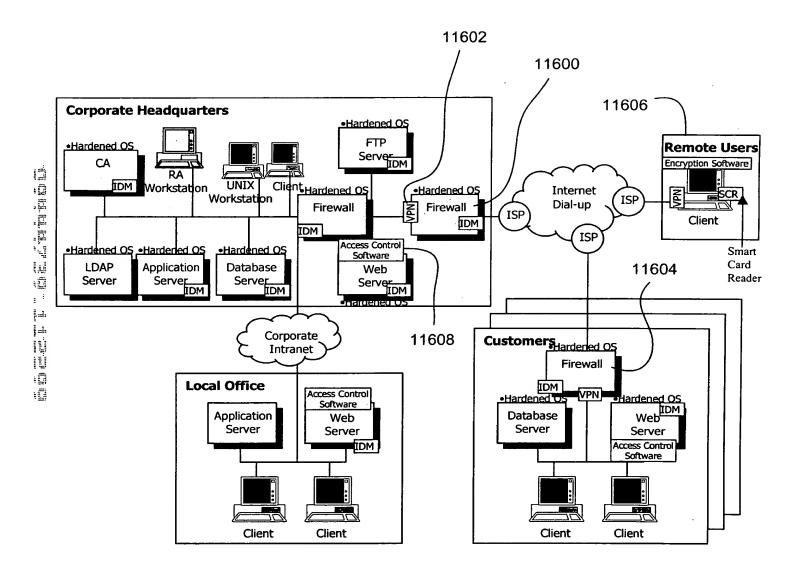


Figure 116

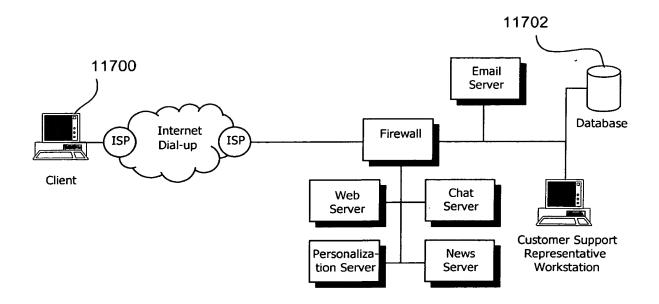


Figure 117

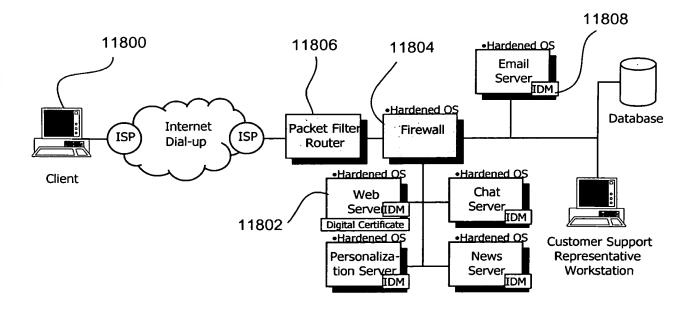
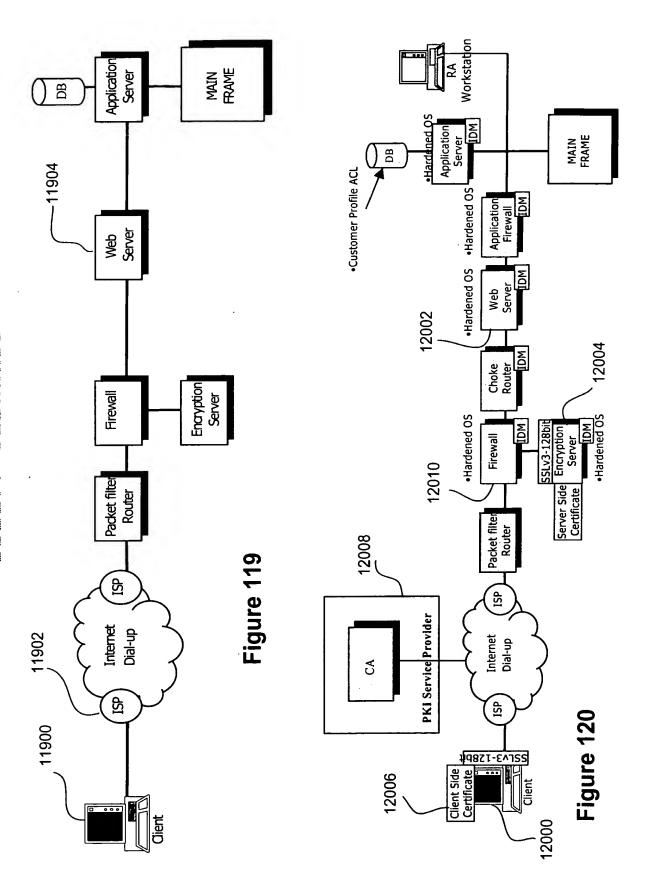


Figure 118



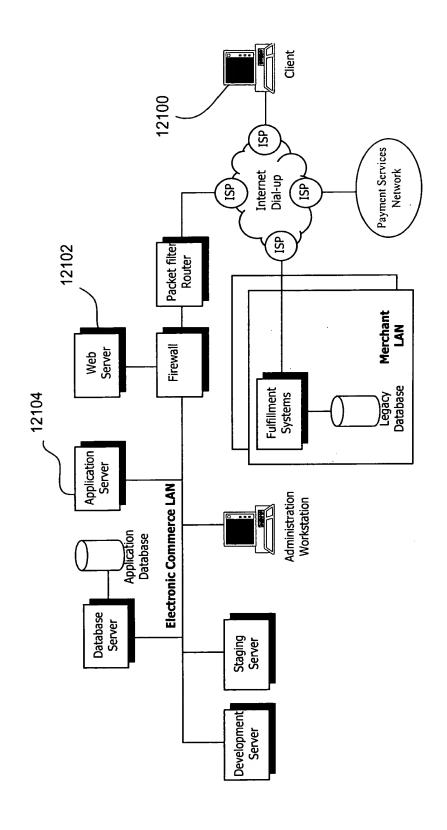


Figure 121

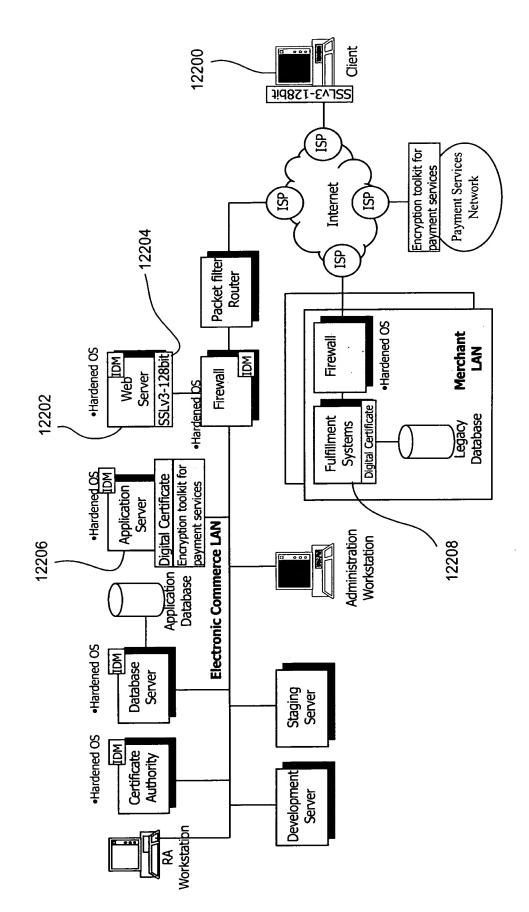


Figure 122

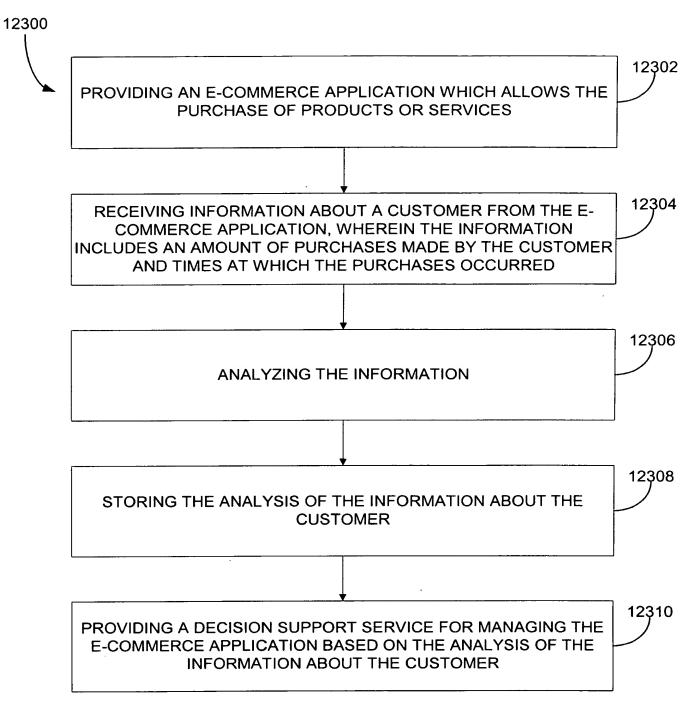
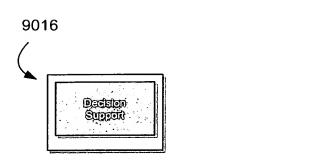


Figure 123





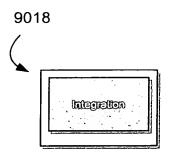


Figure 125

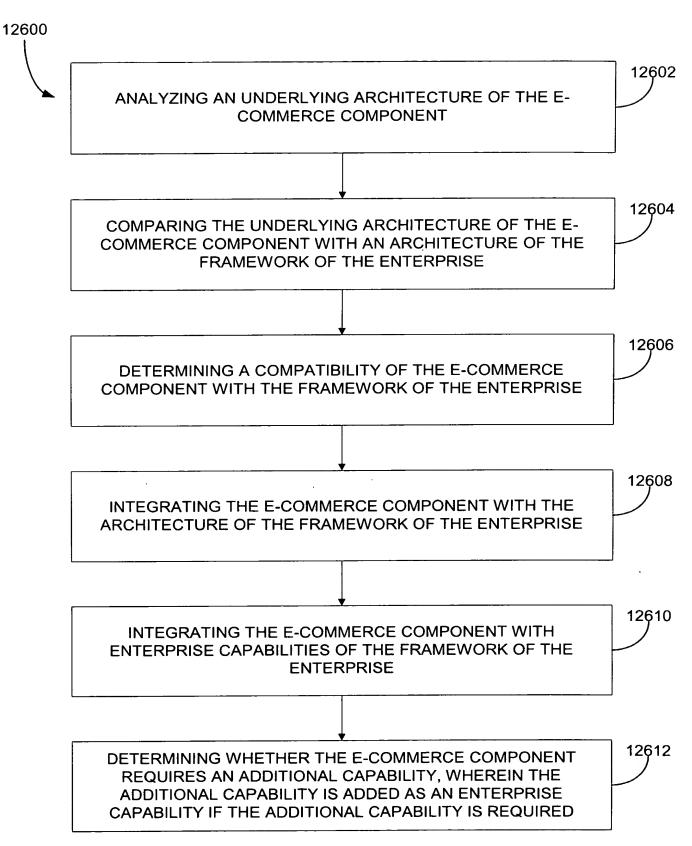


Figure 126

## **Bandwidth Market**

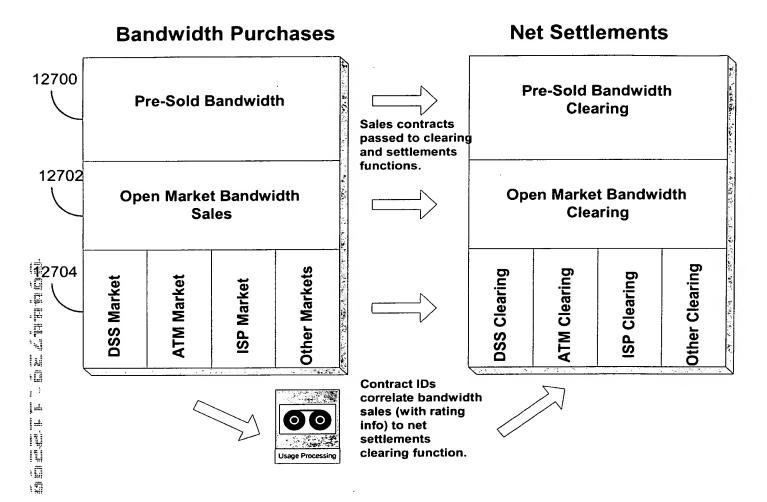
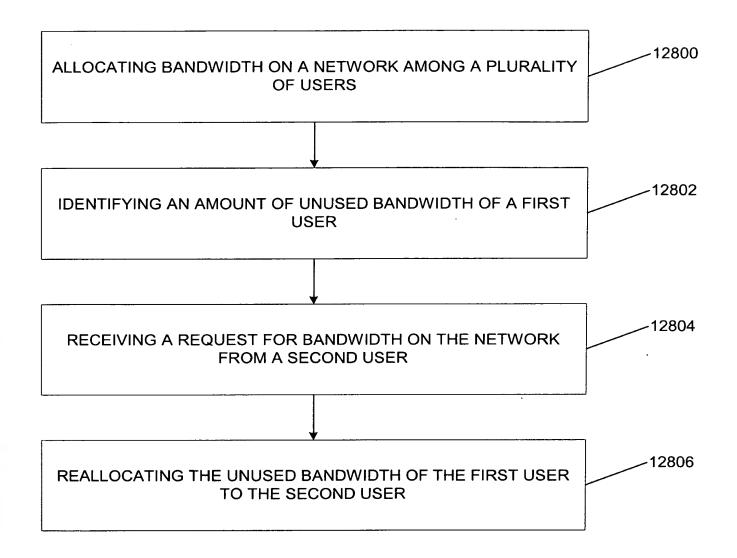


Figure 127



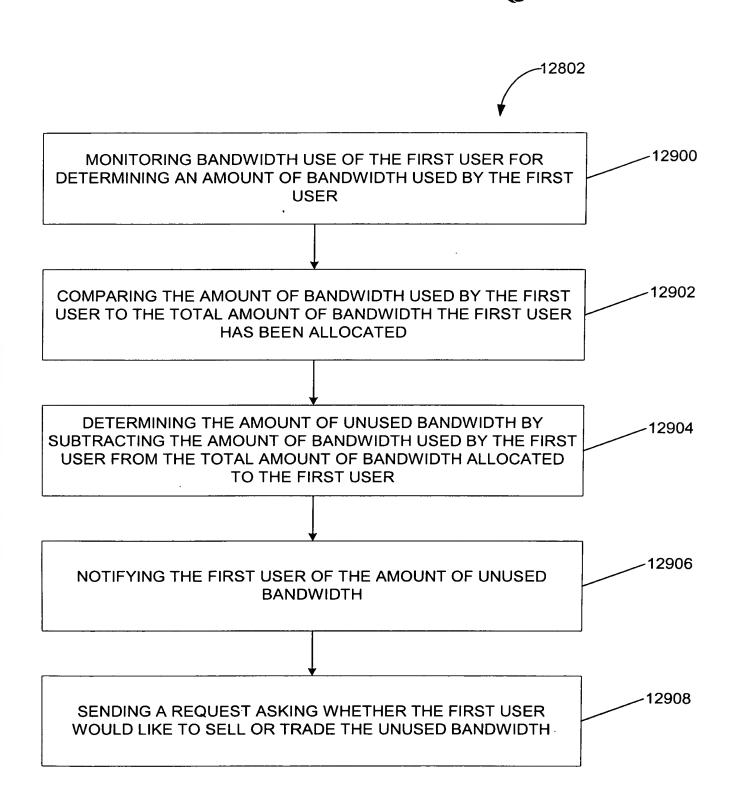
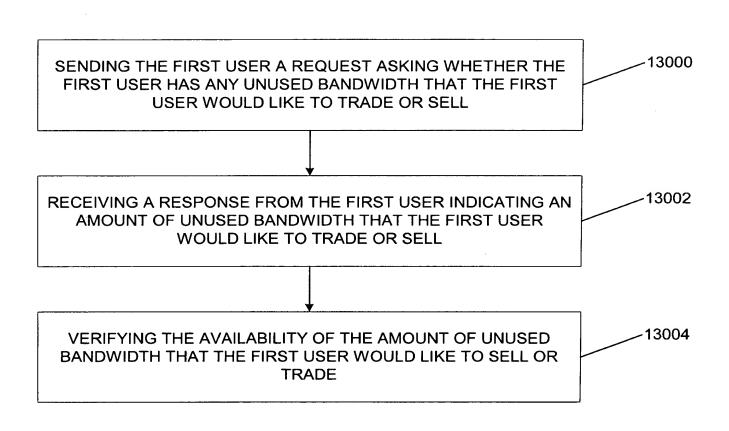
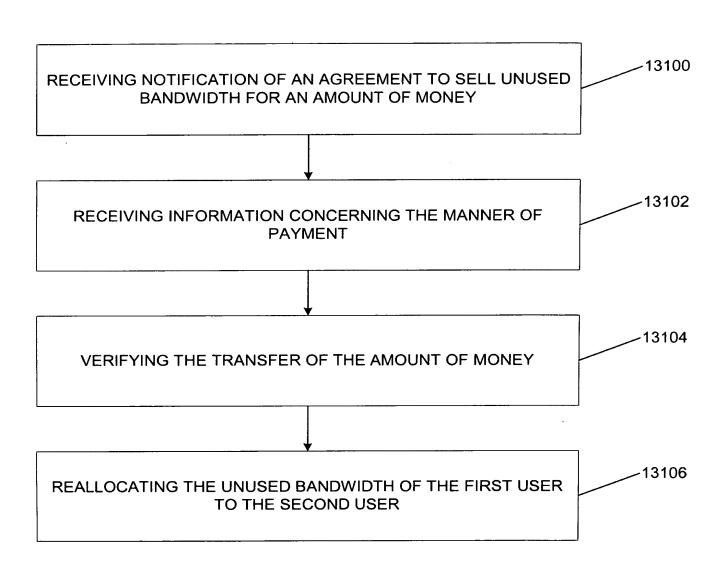


Figure 129

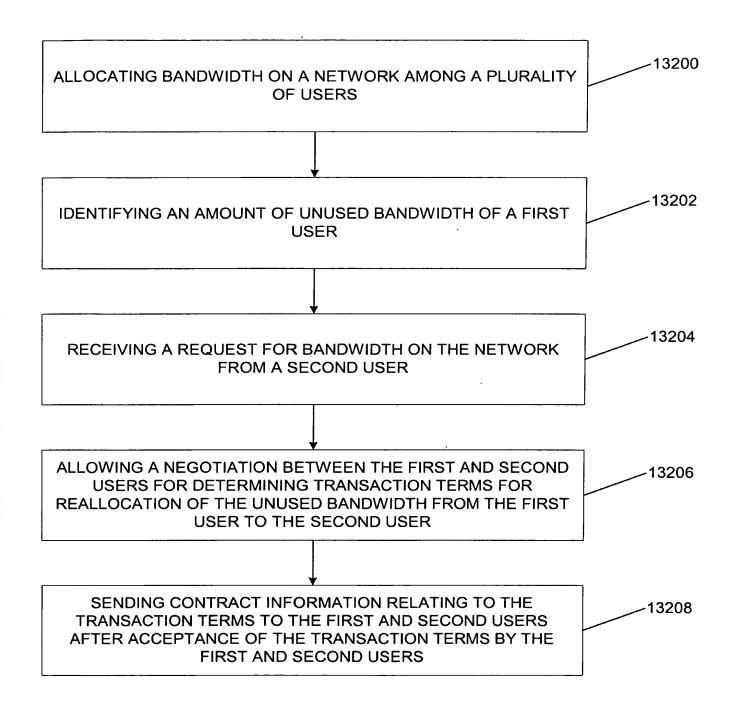


12802



-12806

Figure 131



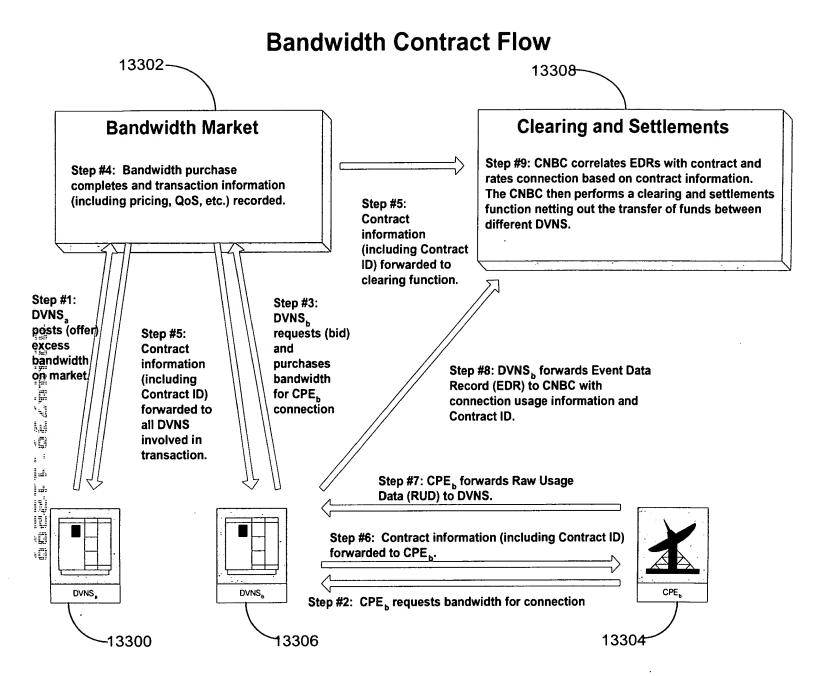
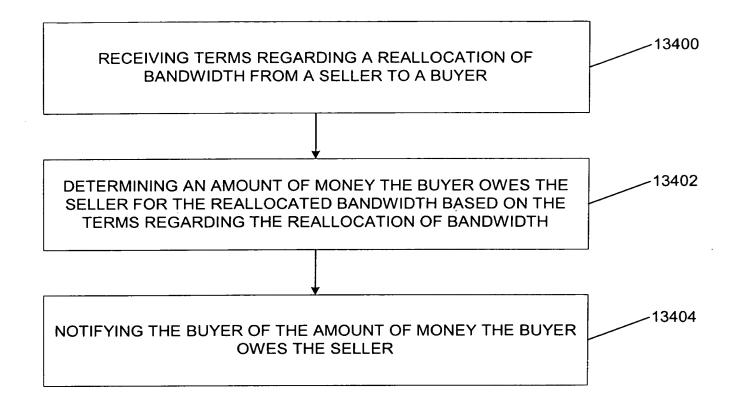


Figure 133



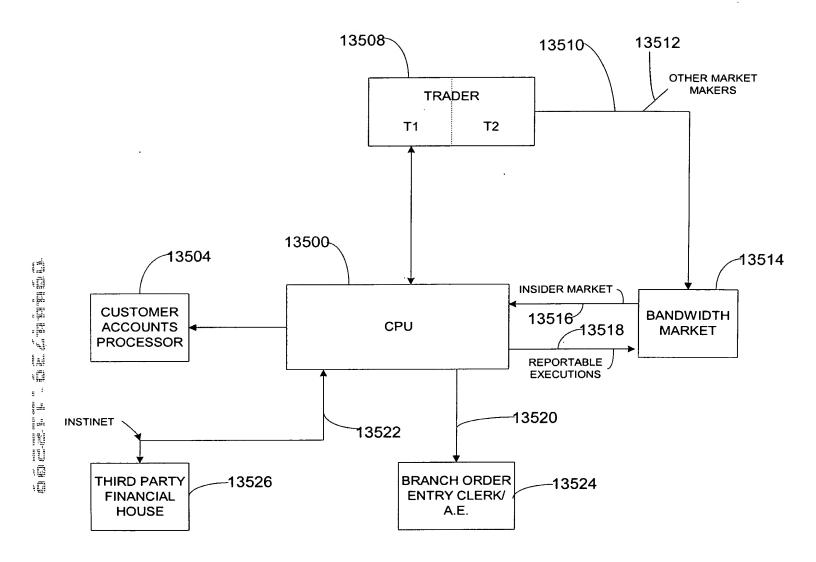
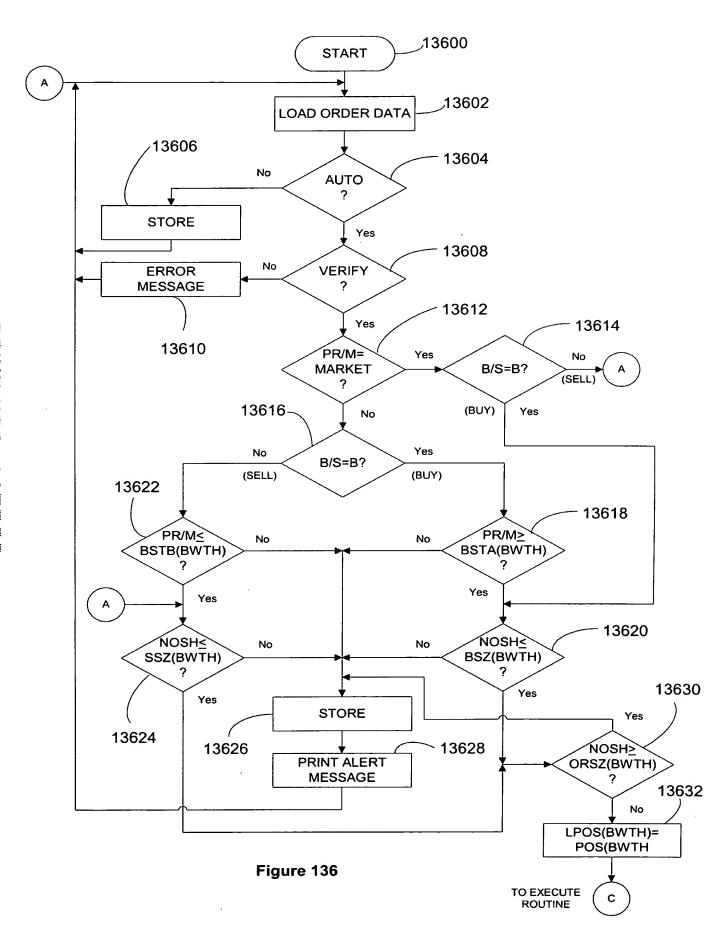


Figure 135



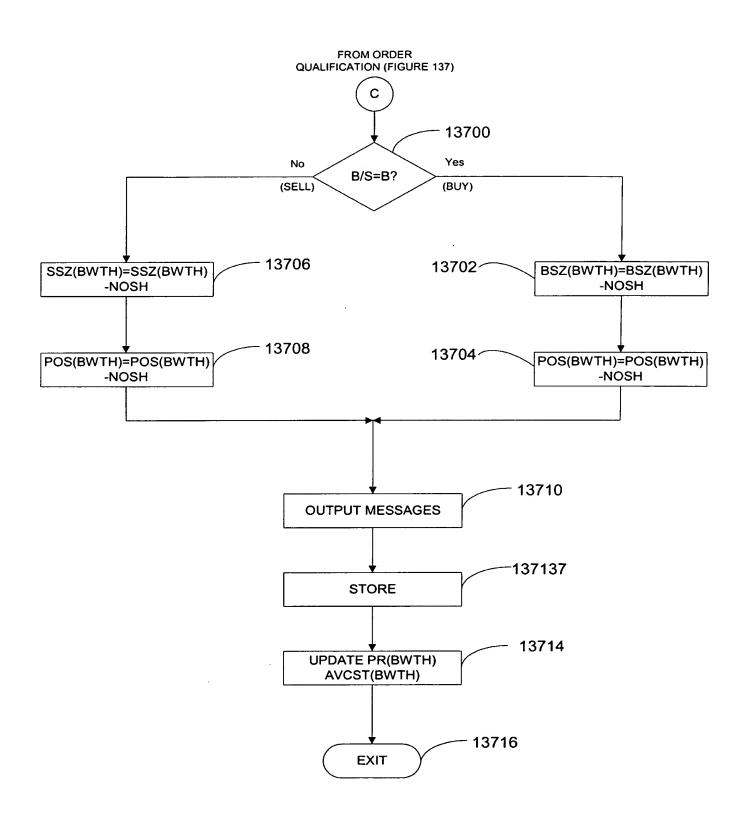


Figure 137

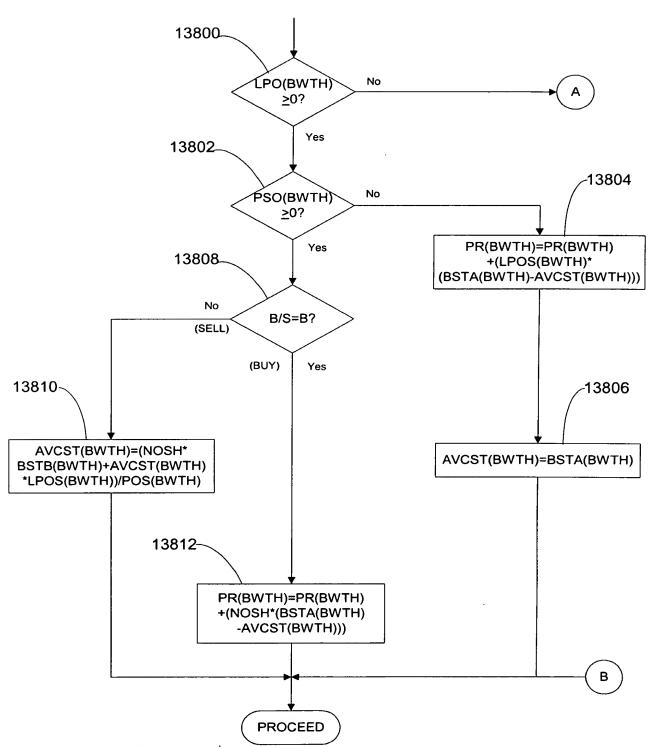


Figure 138

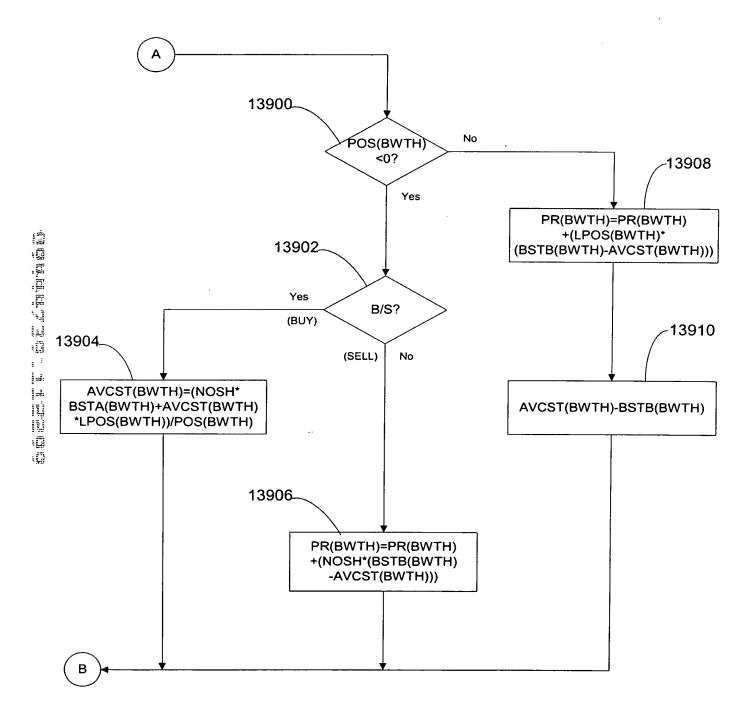


Figure 139

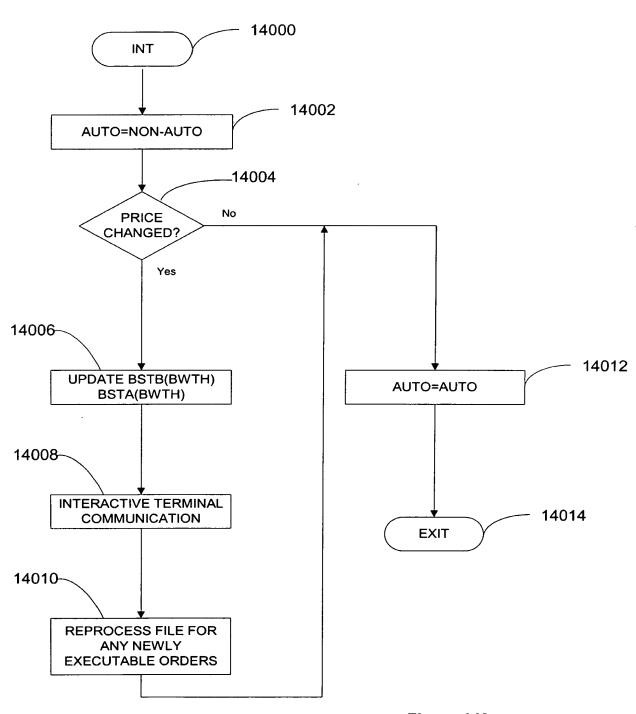


Figure 140

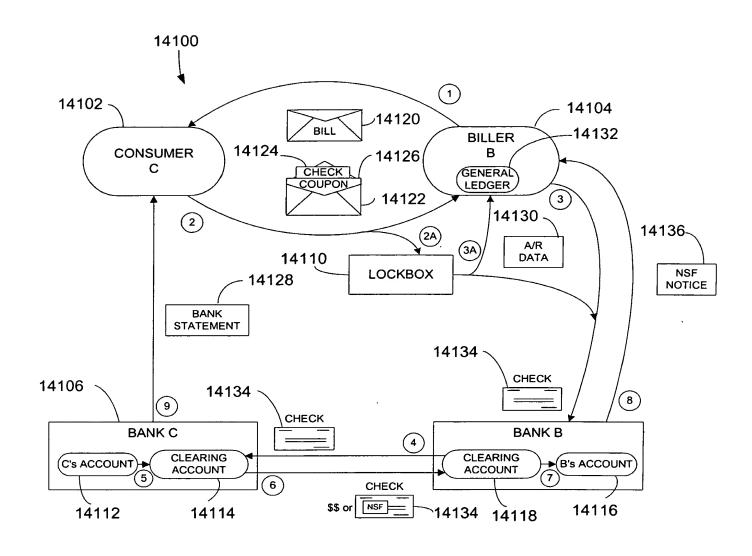
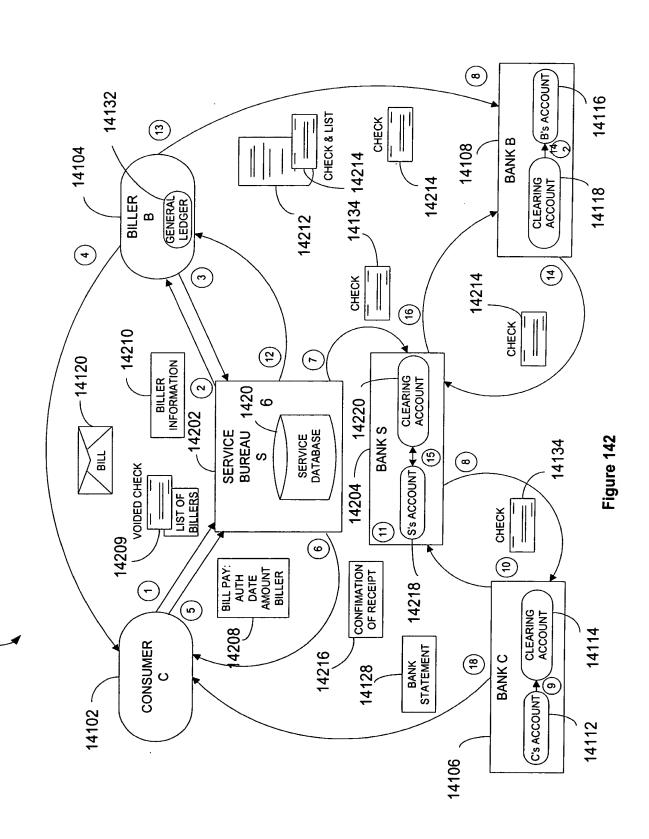


Figure 141



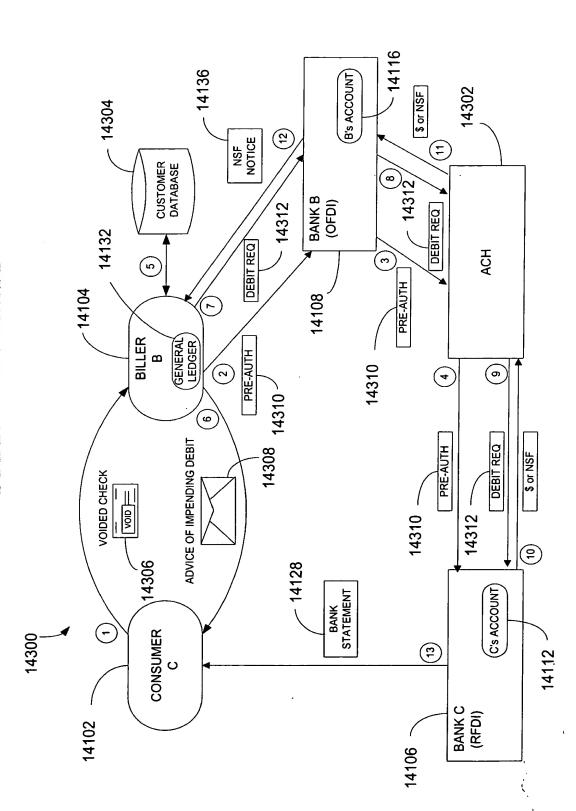


Figure 143